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NEWS 5 NOV 03 JAPTO enhanced with IPC 8 features and functionality
NEWS 6 NOV 10 CA/CAPLUS F-Term thesaurus enhanced
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NEWS 9 DEC 01 CAS REGISTRY updated with new ambiguity codes
NEWS 10 DEC 11 CAS REGISTRY chemical nomenclature enhanced
NEWS 11 DEC 14 WPIDS/WPINDEX/WPIX manual codes updated
NEWS 12 DEC 14 GBFULL and FRFULL enhanced with IPC 8 features and functionality
NEWS 13 DEC 18 CA/CAPLUS pre-1967 chemical substance index entries enhanced with preparation role
NEWS 14 DEC 18 CA/CAPLUS patent kind codes updated
NEWS 15 DEC 18 MARPAT to CA/CAPLUS accession number crossover limit increased to 50,000
NEWS 16 DEC 18 MEDLINE updated in preparation for 2007 reload
NEWS 17 DEC 27 CA/CAPLUS enhanced with more pre-1907 records
NEWS 18 JAN 08 CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 19 JAN 16 CA/CAPLUS Company Name Thesaurus enhanced and reloaded
NEWS 20 JAN 16 IPC version 2007.01 thesaurus available on STN
NEWS 21 JAN 16 WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 22 JAN 22 CA/CAPLUS updated with revised CAS roles
NEWS 23 JAN 22 CA/CAPLUS enhanced with patent applications from India
NEWS 24 JAN 29 PHAR enhanced with new search and display fields
NEWS 25 JAN 29 CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 26 FEB 13 CASREACT coverage to be extended
NEWS 27 Feb 15 PATDPASPC enhanced with Drug Approval numbers
NEWS 28 Feb 15 RUSSIAPAT enhanced with pre-1994 records
NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), 2006.
AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER, 2006.
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***** STN Columbus *****

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COST IN U.S. DOLLARS

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FILE 'MEDLINE' ENTERED AT 09:15:13 ON 23 FEB 2007

=> s vanstockum
L1 0 VANSTOCKUM

=> s vitiligo
L2 8691 VITILIGO

=> s l2 and folic and vitamin C and copper and (B12 or cobalamin)
L3 18 L2 AND FOLIC AND VITAMIN C AND COPPER AND (B12 OR COBALAMIN)

=> dupr rem l3
DUPR IS NOT A RECOGNIZED COMMAND
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=> dup rem l3
PROCESSING COMPLETED FOR L3
L4 17 DUP REM L3 (1 DUPLICATE REMOVED)

=> s l4 and zinc
L5 11 L4 AND ZINC

=> s l5 and pantothenic
L6 5 L5 AND PANTOTHENIC

=> d l6 1-5 ibib kwic

L6 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:72741 HCAPLUS Full-text
DOCUMENT NUMBER: 141:219003
TITLE: Method and composition for treating hypopigmentation of the hair and skin
INVENTOR(S): Vanstockum, Audrey
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 7 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
PATENT NO. KIND DATE APPLICATION NO. DATE
US 2004170702 A1 20040902 US 2004-782827 20040223
WO 2004075849 A2 20040910 WO 2004-US5454 20040225
WO 2004075849 A3 20041202
W: AE, AE, AG, AL, AM, AM, AT, AU, AZ, BA, BB, BG, BG, BR, BR, BY, BZ, CA, CH, CN, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DM, EC, EE, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KE, KG, KP, KR, KR, KZ, KZ, LC, LC, LR, LR, LS, LS, LT, LV, MA, MD, MG, MK, MW, MX, MX, MZ, MZ, NA, NI
RM: BW, GH, GM, KE, LS, MW, MZ, SD, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN, CO, GW, ML, MR, NE, SN, TD, TG
EP 1470822 A1 20041027 EP 2004-4336 20040226
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
PRIORITY APPLN. INFO.: US 2003-49866P P 20030227
AB A method of treating disorders marked by a loss of pigmentation, comprising the step of administering vitamin B12, copper, folic acid, and vitamin C to a patient suffering from a loss of pigmentation. Addnl., an effective amount of both pantothenic acid and zinc may be administered to said patient. Cutaneous repigmentation can be accelerated by the optional addition of exposure to sunlight or UV light.
ST vitamin B12 sublingual copper folate mixt hair skin hypopigmentation; pantothenic acid zinc hydrochloride sunlight combination therapy skin depigmentation: UV radiation vitamin C topical shampoo hair skin hypopigmentation
IT Combination chemotherapy Drug interactions Human Ovarian cycle Sex Shampoos Solar UV radiation UV radiation Vitiligo
(method and composition for treating hypopigmentation of hair and skin)
IT 50-81-7, Vitamin C, biological studies 59-30-3, Folic acid, biological studies 68-19-9, Vitamin B12 79-83-4, Pantothenic acid 7440-50-8, Copper, biological studies 7440-66-6, Zinc, biological studies 7647-01-0, Hydrochloric acid, biological studies

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(method and composition for treating hypopigmentation of hair and skin)
L6 ANSWER 2 OF 5 USPATFULL on STN
ACCESSION NUMBER: 2007:29841 USPATFULL Full-text
TITLE: Nutritional supplements containing xanthone extracts
INVENTOR(S): Foulger, Sidney W., Potomac, MD, UNITED STATES
NUMBER KIND DATE
PATENT INFORMATION: US 2007026109 A1 20070201
APPLICATION INFO.: US 2006-474087 A1 20060623 (11)
RELATED APPLN. INFO.: Continuation of Ser. No. US 2004-1650, filed on 1 Dec 2004, PENDING
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: ALAN J. HOWARTH, P.O. BOX 1909, SANDY, UT, 84091-1909, US
NUMBER OF CLAIMS: 35
EXEMPLARY CLAIM: 1
LINE COUNT: 1886
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
SUMM . . . mixture of one or more organic-solvent-extracted xanthenes and one or more vitamins selected from the group consisting of vitamin A, vitamin C, vitamin D, vitamin E, vitamin K, vitamin B-12, thiamine, riboflavin, niacin, pantothenic acid, pyridoxine, folic acid, biotin, derivatives thereof, and mixtures thereof. This nutritional supplement composition can also contain one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof; one or more carotenoids selected from the group consisting of β -carotene, lutein, lycopene.
SUMM . . . of one or more organic-solvent-extracted xanthenes and one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof.
SUMM . . . a mixture of about 1-200+10.sup.-3 parts by weight of one or more organic-solvent-extracted xanthenes, about 100-3,000+10.sup.-3 parts by weight of vitamin C, about 10-800 international units of vitamin E, about 500-2,000+10.sup.-3 parts by weight of calcium, about 1-10+10.sup.-3 parts by weight of copper, about 1-40+10.sup.-3 parts by weight of iron, about 1-50+10.sup.-3 parts by weight of manganese, about 2-100+10.sup.-3 parts by weight of zinc, about 20-1,000+10.sup.-6 parts by weight of selenium, about 1-200+10.sup.-3 parts by weight of β -carotene, about 10-1,000+10.sup.-6 parts by weight of .
SUMM (a) one or more vitamins selected from the group consisting of vitamin A, vitamin C, vitamin D, vitamin E, vitamin K, vitamin B-12, thiamine, riboflavin, niacin, pantothenic acid, pyridoxine, folic acid, biotin, derivatives thereof, and mixtures thereof; or
SUMM (b) one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof; or

SUMM

... a mixture of about 1-200+10.sup.-3 parts by weight of one or more organic-solvent-extracted xanthones, about 100-3,000+10.sup.-3 parts by weight of vitamin C, about 10-800 international units of vitamin E, about 500-2,000+10.sup.-3 parts by weight of calcium, about 1-10+10.sup.-3 parts by weight of copper, about 1-40+10.sup.-3 parts by weight of iron, about 1-50+10.sup.-3 parts by weight of manganese, about 2-100+10.sup.-3 parts by weight of zinc, about 20-1,000+10.sup.-6 parts by weight of selenium, about 1-200+10.sup.-3 parts by weight of β -carotene, about 10-1,000+10.sup.-6 parts by weight of.

DETD ... an amount sufficient to prevent a deficiency thereof or to reduce the incidence of some cancers, i.e., lung (vitamin E, folic acid, vitamin D, selenium), prostate (vitamin E, vitamin D, selenium), stomach (vitamin C), colorectal (folic acid, vitamin D, selenium), skin (selenium), cervix (folic acid), and breast (vitamin D); osteoporosis (vitamin D, vitamin K, calcium, magnesium, vanadium, and possibly boron and copper); osteoarthritis (calcium); macular degeneration or cataracts (riboflavin, vitamin C, vitamin E, selenium); heart disease (vitamin E, folic acid, pyridoxine, vitamin A, magnesium, selenium, copper); neurologic disease (thiamine, niacin, pantothenic acid, folic acid, vitamin B-12); or Alzheimer's disease (vitamin E), or to aid in regeneration of connective tissue (vitamin C, copper, iron, manganese, zinc). An effective amount of a carotenoid is an amount sufficient to provide a beneficial effect, such as reduce the incidence.

DETD ... of normal bone salts for the formation and growth of a sound bony structure. Certain vitamins, such as thiamine, riboflavin, pantothenic acid, and niacin, are known to be essential constituents of the respiratory enzymes that are required in the utilization of.

DETD Vitamin C, or ascorbic acid, is known to be essential for the formation of intercellular collagen. Symptoms of scurvy, due to vitamin C deficiency, include bleeding gums, easy bruising, and a tendency toward bone fractures. All these symptoms are a result of the requirement for vitamin C in the development of the ground substance between cells. This ground substance, primarily collagen, is the cement that gives our ... points to the relationship of the vitamin in maintenance of tooth structures, matrix of bone, and the walls of capillaries.

Vitamin C is essential for the healing of bone fractures. Such fractures heal slowly in a patient deficient in vitamin C. This is true also of wound healing. Vitamin C is also an antioxidant. Oxygen is a highly reactive element, and the process of reacting with certain chemicals is termed. ... free-radical damage appears to contribute to chronic conditions and the more antioxidant nutrition supplementation is realized to be is essential. Vitamin C is the most effective water-soluble antioxidant in human plasma. Vitamin C is also a requirement for the proper functioning of the immune system. It is involved in white blood cell production, T-cells, and macrophages. In addition, vitamin C is required in the synthesis of neurotransmitters, steroid hormones, and carnitine, and in the conversion of cholesterol to bile acids and for enhancing iron availability. Vitamin C prevents degenerative diseases, such as cataracts, certain cancers, and cardiovascular diseases. Further, vitamin C promotes healthy cell

development, proper calcium absorption, and normal tissue growth and repair, such as in healing of wounds and bums. Still further, vitamin C assists in prevention of blood clotting and bruising, and it strengthens capillary walls. Moreover, it protects against infection and assists. ... is also an essential component of enzymes and aids in the utilization of protein and certain other vitamins, such as folic acid, pantothenic acid, and vitamin B-12.

DETD Folic acid or folacin is one of the important hematopoietic agents necessary for proper regeneration of blood-forming elements and their functioning. That is, folic acid is essential for creating heme, the iron-containing substance in hemoglobin, which is crucial for oxygen transport in the body. Folic acid is also involved as a coenzyme in intermediary metabolic reactions in which one-carbon units are transferred. These reactions are ... of purines and pyrimidines is ultimately linked with that of nucleotides and ribo- and deoxyribo-nucleic acids, functional elements in all cells. Folic acid also assists in digestion, in proper functioning of the nervous system, and improving mental and emotional health. Folic acid may be effective in treating depression and anxiety. Folic acid is also very important in the development of the nervous system and of a developing fetus.

DETD Pantothenic acid is of the highest biological importance because of its incorporation into Coenzyme A (CoA), which is involved in many ... and metabolism of fatty acids, and in the synthesis of such compounds as sterols and steroid hormones, porphyrins, and acetylcholine. Pantothenic acid also participates in the utilization of vitamins; improves the body's resistance to stress; helps in cell building and the development of the central nervous system; helps the adrenal glands, and fights infections by participating in building of antibodies. Pantothenic acid plays an important role in the secretion of hormones, such as cortisone, because of its role in supporting the. ... These hormones assist in metabolism, help fight allergies, and are beneficial in the maintenance of healthy skin, muscles, and nerves. Pantothenic acid is also used in the release of energy, as well as in the metabolism of fat, proteins, and carbohydrates.

DETD ... to facilitate reduction reactions and participate in the transfer of methyl groups. Its chief importance seems to be, together with folic acid, in the anabolism of DNA in all cells. It is a requisite for normal blood formation, and certain macrocytic. ... been difficult to identify choline-deficiency syndromes in humans. The Institute of Medicine noted: "Healthy males with normal

DETD folate and vitamin B12 status fed a choline deficient diet have diminished plasma choline and phosphatidylcholine concentrations, and develop liver damage. For these humans, ... it is actually a nutritional ingredient as well. Since it is a moiety of pteroylglutamic acid (PGA), a form of folic acid, some health professionals do not consider it a vitamin, but only a B-complex factor.

DETD ... such, it aids in the utilization of amino acids, supports red blood cell formation, and assists in the manufacture of folic acid in the intestines. It has been linked to hair growth, as well as reversing the graying of hair, but these results are disappointing. People suffering from vitiligo, over-pigmentation of skin, or without pigment in some spots, have reported an improvement of the skin after more PABA was.

DETD ... levels of PABA are stored in the body and may cause liver damage. PABA is best used in combination with vitamin C and the B group vitamins, particularly folic acid.

Long term antibiotic use may require more PABA from the body, but PABA affects the effectiveness of sulfa drugs.

| | |
|---------------------------|---------------------------------------------|
| DETD | 1-50 + 10.sup.-3 5-30 + 10.sup.-3 |
| Riboflavin (B-2) | 1-40 + 10.sup.-3 2-20 + 10.sup.-3 |
| Niacin/Nicotinamide (B-3) | 0.5-150 + 10.sup.-3 10-150 + 10.sup.-3 |
| Pantothenic Acid (B-5) | 1-100 + 10.sup.-3 5-50 + 10.sup.-3 |
| Pyridoxine (B-6) | 1-100 + 10.sup.-3 1-50 + 10.sup.-3 |
| Folate | 100-3,000 + 10.sup.-6 200-2,000 + 10.sup.-6 |

DETD . . . sulphur, and chloride) are present in the body in quantities of more than five grams. Trace elements, which include boron, copper, iron, manganese, selenium, and zinc are found in the body in quantities of less than five grams.

Copper is another important trace element in the diet. The most common defect observed in copper-deficient animals is anemia. Other abnormalities include growth depression, skeletal defects, demyelination and degeneration of the nervous system, ataxia, defects in pigmentation and structure of hair or wool, reproductive failure, and cardiovascular lesions, including dissecting aneurisms. Several copper-containing metalloproteins have been isolated, including tyrosinase, ascorbic acid oxidase, laccase, cytochrome oxidase, uricase, monoamine oxidase, 8-aminolevulinic acid hydrolase, and dopamine- β -hydroxylase. Copper functions in the absorption and utilization of iron, electron transport, connective tissue metabolism, phospholipid formation, purine metabolism, and development of the nervous system. Ferroxidase I (ceruloplasmin), a copper-containing enzyme, effects the oxidation of Fe(II) to Fe(III), a required step for mobilization of stored iron. A copper-containing enzyme is thought to be responsible for the oxidative deamination of the epsilon amino group of lysine to produce desmosine and isodesmosine, the cross-links of elastin. In copper-deficient animals the arterial elastin is weaker and dissecting aneurisms may occur. Copper is required in the formation of hemoglobin, red blood cells, and bones, while it helps with the formation of elastin and collagen, thus making it necessary for wound healing. Copper is also a constituent of superoxide dismutase (SOD), a powerful enzyme that scavenges free radicals in cells.

DETD . . . lipids, and proteins, as well as in the synthesis of glucose and lipids. Manganese also enables the body to utilize vitamin C, vitamin B-1, and biotin, as well as choline. Manganese is used in the manufacture of fat, sex hormones, and breast.

Zinc is known to occur in many important metalloenzymes. These include carbonic anhydrase, carboxypeptidases A and B, alcohol dehydrogenase, glutamic dehydrogenase, . . . D-glyceraldehyde-3-phosphate dehydrogenase, lactic dehydrogenase, malic dehydrogenase, alkaline phosphatase, and aldolase. Impaired synthesis of nucleic acids and proteins has been observed in zinc deficiency. There is also evidence that zinc may be involved in the secretion of insulin and in the function of the hormone. Zinc is also necessary for a healthy immune system and is useful for treating skin conditions, such as acne and boils, and for treating sore throats. Zinc is also needed for cell division and for growth and maintenance of muscles. Children need zinc in the diet for normal growth and sexual development. Zinc is also a constituent of superoxide dismutase (ZnSOD), which scavenges free radicals. Further, zinc is required for growth and maintenance

of hair, nails, and skin.

| | |
|------------|-------------------------------------------|
| DETD | 500-1,500 + 10.sup.-3 |
| Magnesium | 50-1,000 + 10.sup.-3 100-800 + 10.sup.-3 |
| Chromium | 10-500 + 10.sup.-6 10-300 + 10.sup.-6 |
| Copper | 1-10 + 10.sup.-3 1-5 + 10.sup.-3 |
| Iodine | 10-500 + 10.sup.-6 10-300 + 10.sup.-6 |
| Iron | 1-40 + 10.sup.-3 5-20 + 10.sup.-3 |
| Molybdenum | 5-200 + 10.sup.-6 10-100 + 10.sup.-6 |
| Selenium | 20-1,000 + 10.sup.-6 20-500 + 10.sup.-6 |
| Zinc | 2-100 + 10.sup.-3 5-40 + 10.sup.-3 |
| Boron | 100-1,000 + 10.sup.-6 200-800 + 10.sup.-6 |
| Sodium | 100-500 + 10.sup.-3 200-400 + 10.sup.-3 |

DETD . . . art. U.S. Pat. No. 5,292,538. Examples of minerals that can be provided as amino acid chelates include calcium, magnesium, manganese, zinc, iron, boron, copper, molybdenum, chromium, and silicon. Still further, minerals can be provided as organic compounds, such as ascorbates, citrates, picolinates, aspartates, carbonates, . . . Illustrative examples of various mineral forms according to the present invention include potassium bicarbonate, sodium bicarbonate, calcium carbonate, calcium ascorbate, zinc picolinate, manganese picolinate, copper aspartate, molybdenum trioxide, chromium picolinate, potassium iodide, boron citrate, silicon amino acid chelate, and the like.

DETD . . . free radicals and are believed to reduce the risk of cancer and heart disease, decrease allergy and arthritis symptoms, promote vitamin C activity, improve the strength of blood vessels, block the progression of cataracts and macular degeneration, treat menopausal hot flashes, and . . .

DETD . . . with the intake of very high dosage of inositol. Inositol is best used with choline, B group vitamins, vitamin E, vitamin C, and linoleic acid.

DETD . . . less joint deterioration. MSM is a non-metallic organic compound that plays an essential role in human nutrition. When amino acids, zinc, copper, silicon, and vitamin C are present, the body metabolizes MSM to sulfur. Sulfur, a structural component integral to new cell growth, is stored in . . .

| | | | | | | | | | |
|-------------------------|-----|------|------|-----|------|------|------|------|------|
| DETD | 50 | 800 | 200 | 800 | 750 | 200 | 400 | 150 | 300 |
| Vitamin E (IU) | 800 | 200 | 500 | 800 | 750 | 200 | 400 | 150 | 300 |
| Vitamin K (μ g) | 80 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 20 |
| Vitamin C (mg) | 600 | 1800 | 900 | 800 | 2000 | 1000 | 1000 | 1000 | 1000 |
| Thiamine (mg) | 10 | 40 | 10 | 40 | 5 | 50 | 5 | 50 | 50 |
| Riboflavin (mg) | 50 | 8 | 20 | 8 | 20 | 4 | 4 | 80 | 80 |
| Folate (μ g) | 800 | 800 | 1200 | 800 | 1200 | 2600 | 2600 | 200 | 200 |
| Vitamin B-12 (μ g) | 60 | 60 | 100 | 60 | 100 | 150 | 150 | 5 | 5 |
| Biotin (μ g) | 300 | 300 | 200 | 300 | 200 | 50 | 50 | 1000 | 1000 |
| Pantothenic Acid (mg) | 75 | 15 | 15 | 20 | 20 | 5 | 5 | 5 | 5 |
| Choline (mg) | 100 | 80 | 100 | 80 | 40 | 40 | 200 | 200 | 200 |

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Goetz, Douglas J., Athens, OH, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2006211752 A1 20060921
APPLICATION INFO.: US 2005-130922 A1 20050517 (11)
RELATED APPL. INFO.: Continuation-in-part of Ser. No. US 2004-912948, filed on 6 Aug 2004, PENDING Continuation-in-part of Ser. No. US 2004-801986, filed on 16 Mar 2004, PENDING

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: FROST BROWN TODD, LLC, 2200 PNC CENTER, 201 E. FIFTH STREET, CINCINNATI, OH, 45202, US

NUMBER OF CLAIMS: 167
EXEMPLARY CLAIM: 1-138
NUMBER OF DRAWINGS: 17 Drawing Page(s)
LINE COUNT: 8384
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . Rheumatic Fever, Rheumatoid Arthritis, Sarcoidosis, Scleroderma, Sjogren's Syndrome, Stiffman Syndrome, Takayasu Arteritis, Temporal Arteritis/Giant Cell Arteritis, Ulcerative Colitis, Uveitis, Vasculitis, Vitiligo, Wegener's Granulomatosis, or myasthenia gravis.

SUMM . . . alpha/gamma agonists, vitamin B6 (also known as pyridoxine) and the pharmaceutically acceptable salts thereof such as the HCl salt; vitamin B12 (also known as cyanocobalamin); folic acid or a pharmaceutically acceptable salt or ester thereof such as the sodium salt and the methylglucamine salt; anti-oxidant vitamins such as vitamin C and E and beta carotene; beta-blockers; angiotensin II antagonists such as losartan; angiotensin converting enzyme inhibitors such as enalapril and.

DETD . . . acids including inorganic or organic bases and inorganic or organic acids. Salts derived from inorganic bases include: aluminum, ammonium, calcium, copper, ferric, ferrous, lithium, magnesium, manganese, sodium, zinc, and the like. Particularly preferred are the ammonium, calcium, magnesium, potassium, and sodium salts. Salts derived from pharmaceutically acceptable organic . . . acetic, benzenesulfonic, benzoic, camphorsulfonic, citric, ethanesulfonic, fumaric, gluconic, glutamic, hydrobromic, hydrochloric, isethionic, lactic, maleic, malic, mandelic, methanesulfonic, mucic, nitric, pantoic, pantothenic, phosphoric, succinic, sulfuric, tartaric, p-toluenesulfonic acid, and the like. Particularly preferred are citric, hydrobromic, hydrochloric, maleic, phosphoric, sulfuric, and tartaric.

DETD Elevated serum levels of homocysteine are highly correlated with atherosclerosis, heart disease, stroke, and peripheral vascular disease. Vitamin B6, vitamin B12, and folic acid act to lower homocysteine levels and reduce the incidence of these disease states. Vitamin B6 may be included in amounts between about 2 mg and 2 grams. Vitamin B12 may be included in amounts between about 3 µg and 2 mg. Folic acid may generally be included in amounts up to about 5 mg, such as about 400 to 800 g, about.

CLM What is claimed is:
. . . Rheumatic Fever, Rheumatoid Arthritis, Sarcoidosis, Scleroderma, Sjogren's Syndrome, Stiffman Syndrome, Takayasu Arteritis, Temporal

Arteritis/Giant Cell Arteritis, Ulcerative Colitis, Uveitis, Vasculitis, Vitiligo, Wegener's Granulomatosis, or myasthenia gravis.

. . . dual agonists, vitamin B6 (also known as pyridoxine) and the pharmaceutically acceptable salts thereof such as the HCl salt; vitamin B12 (also known as cyanocobalamin); folic acid or a pharmaceutically acceptable salt or ester thereof such as the sodium salt and the methylglucamine salt; anti-oxidant vitamins such as vitamin C and E and beta carotene; beta-blockers; angiotensin II antagonists such as losartan; angiotensin converting enzyme inhibitors such as enalapril and.

L6 ANSWER 4 OF 5 USPATFULL ON STN
ACCESSION NUMBER: 2006:136978 USPATFULL Full-text
TITLE: Nutritional supplement drink containing xanthone extracts

INVENTOR(S): Foulger, Sidney W., Potomac, MD, UNITED STATES
Wu, Yue Xuan, Rockville, MD, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2006115556 A1 20060601
APPLICATION INFO.: US 2005-129560 A1 20050512 (11)
RELATED APPL. INFO.: Continuation-in-part of Ser. No. US 2004-1650, filed on 1 Dec 2004, PENDING

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: ALAN J. HOWARTH, P.O. BOX 1909, SANDY, UT, 84091-1909, US

NUMBER OF CLAIMS: 28
EXEMPLARY CLAIM: 1
LINE COUNT: 1932

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . a mixture of one or more organic-solvent-extracted xanthones; one or more vitamins selected from the group consisting of vitamin A, vitamin C, vitamin D, vitamin E, vitamin K, vitamin B-12, thiamine, riboflavin, niacin, pantothenic acid, pyridoxine, folic acid, biotin, derivatives thereof, and mixtures thereof; a flavoring agent; and an aqueous carrier. This nutritional supplement composition can also contain one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof; one or more carotenoids selected from the group consisting of β-carotene, lutein, lycopene.

SUMM . . . mixture of one or more organic-solvent-extracted xanthones; one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof; a flavoring agent; and an aqueous carrier.

SUMM . . . a mixture of about 1-200+10.sup.-3 parts by weight of one or more organic-solvent-extracted xanthones, about 100-3,000+10.sup.-3 parts by weight of vitamin C, about 10-800 international units of vitamin E, about 500-2,000+10.sup.-3 parts by weight of calcium, about 1-10+10.sup.-3 parts by weight of copper, about 1-40+10.sup.-3 parts by weight of iron, about 1-50+10.sup.-3 parts by weight of manganese, about 2-100+10.sup.-3 parts by weight of zinc, about 20-1,000+10.sup.-6 parts by weight of selenium, about 1-200+10.sup.-3 parts by weight of P-carotene,

about 10-1,000+10.sup.-6 parts by weight of. . .

SUMM . . . a flavoring agent, an aqueous carrier, and (a) one or more vitamins selected from the group consisting of vitamin A, vitamin C, vitamin D, vitamin E, vitamin K, vitamin B-12, thiamine, riboflavin, niacin, pantothenic acid, pyridoxine, folic acid, biotin, derivatives thereof, and mixtures thereof; or

SUMM (b) one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof; or

SUMM . . . a mixture of about 1-200+10.sup.-3 parts by weight of one or more organic-solvent-extracted xanthones, about 100-3,000+10.sup.-3 parts by weight of vitamin C, about 10-800 international units of vitamin E, about 500-2,000+10.sup.-3 parts by weight of calcium, about 1-10+10.sup.-3 parts by weight of copper, about 1-40+10.sup.-3 parts by weight of iron, about 1-50+10.sup.-3 parts by weight of manganese, about 2-100+10.sup.-3 parts by weight of zinc, about 20-1,000+10.sup.-6 parts by weight of selenium, about 1-200+10.sup.-3 parts by weight of β -carotene, about 10-1,000+10.sup.-6 parts by weight of. . .

DETD . . . an amount sufficient to prevent a deficiency thereof or to reduce the incidence of some cancers, i.e., lung (vitamin E, folic acid, vitamin D, selenium), prostate (vitamin E, vitamin D, selenium), stomach (vitamin C), colorectal (folic acid, vitamin D, selenium), skin (selenium), cervix (folic acid), and breast (vitamin D); osteoporosis (vitamin D, vitamin K, calcium, magnesium, vanadium, and possibly boron and copper); osteoarthritis (calcium); macular degeneration or cataracts (riboflavin, vitamin C, vitamin E, selenium); heart disease (vitamin E, folic acid, pyridoxine, vitamin A, magnesium, selenium, copper); neurologic disease (thiamine, niacin, pantothenic acid, folic acid, vitamin B-12); or Alzheimer's disease (vitamin E), or to aid in regeneration of connective tissue (vitamin C, copper, iron, manganese, zinc). An effective amount of a carotenoid is an amount sufficient to provide a beneficial effect, such as reduce the incidence. . .

DETD . . . of normal bone salts for the formation and growth of a sound bony structure. Certain vitamins, such as thiamine, riboflavin, pantothenic acid, and niacin, are known to be essential constituents of the respiratory enzymes that are required in the utilization of. . .

DETD Vitamin C, or ascorbic acid, is known to be essential for the formation of intercellular collagen. Symptoms of scurvy, due to vitamin C deficiency, include bleeding gums, easy bruising, and a tendency toward bone fractures. All these symptoms are a result of the requirement for vitamin C in the development of the ground substance between cells. This ground substance, primarily collagen, is the cement that gives our points to the relationship of the vitamin in maintenance of tooth structures, matrix of bone, and the walls of capillaries. Vitamin C is essential for the healing of bone fractures. Such fractures heal slowly in a patient deficient in vitamin C. This is true also of wound healing. Vitamin C is also an antioxidant. Oxygen is a highly reactive element, and the process of reacting with certain chemicals is termed. . . free-radical damage appears to contribute to

chronic conditions and the more antioxidant nutrition supplementation is realized to be is essential. Vitamin C is the most effective water-soluble antioxidant in human plasma. Vitamin C is also a requirement for the proper functioning of the immune system. It is involved in white blood cell production, T-cells, and macrophages. In addition, vitamin C is required in the synthesis of neurotransmitters, steroid hormones, and carnitine, and in the conversion of cholesterol to bile acids and for enhancing iron availability. Vitamin C prevents degenerative diseases, such as cataracts, certain cancers, and cardiovascular diseases. Further, vitamin C promotes healthy cell development, proper calcium absorption, and normal tissue growth and repair, such as in healing of wounds and burns. Still further, vitamin C assists in prevention of blood clotting and bruising, and it strengthens capillary walls. Moreover, it protects against infection and assists. . .

DETD . . . is also an essential component of enzymes and aids in the utilization of protein and certain other vitamins, such as folic acid, pantothenic acid, and vitamin B-12.

DETD Folic acid or folacin is one of the important hematopoietic agents necessary for proper regeneration of blood-forming elements and their functioning. That is, folic acid is essential for creating heme, the iron-containing substance in hemoglobin, which is crucial for oxygen transport in the body. Folic acid is also involved as a coenzyme in intermediary metabolic reactions in which one-carbon units are transferred. These reactions are. . . purines and pyrimidines is ultimately linked with that of nucleotides and ribo- and deoxyribo-nucleic acids, functional elements in all cells. Folic acid also assists in digestion, in proper functioning of the nervous system, and improving mental and emotional health. Folic acid may be effective in treating depression and anxiety. Folic acid is also very important in the development of the nervous system and of a developing fetus.

DETD Pantothenic acid is of the highest biological importance because of its incorporation into Coenzyme A (CoA), which is involved in many. . . and metabolism of fatty acids, and in the synthesis of such compounds as sterols and steroid hormones, porphyrins, and acetylcholine. Pantothenic acid also participates in the utilization of vitamins; improves the body's resistance to stress; helps in cell building and the development of the central nervous system; helps the adrenal glands, and fights infections by participating in building of antibodies. Pantothenic acid plays an important role in the secretion of hormones, such as cortisone, because of its role in supporting the. . . These hormones assist in metabolism, help fight allergies, and are beneficial in the maintenance of healthy skin, muscles, and nerves. Pantothenic acid is also used in the release of energy, as well as in the metabolism of fat, proteins, and carbohydrates. . .

DETD . . . to facilitate reduction reactions and participate in the transfer of methyl groups. Its chief importance seems to be, together with folic acid, in the anabolism of DNA in all cells. It is a requisite for normal blood formation, and certain macrocyclic. . .

DETD . . . been difficult to identify choline-deficiency syndromes in humans. The Institute of Medicine noted: "Healthy males with normal folate and vitamin B12 status fed a choline deficient diet have diminished plasma choline and phosphatidylcholine concentrations, and develop liver damage. For these humans, . . .

DETD . . . it is actually a nutritional ingredient as well. Since it is a moiety of pteroylglutamic acid (PGA), a form of folic acid, some health professionals do not consider it a vitamin, but only a

B-complex factor.

DETD . . . such, it aids in the utilization of amino acids, supports red blood cell formation, and assists in the manufacture of folic acid in the intestines. It has been linked to hair growth, as well as reversing the graying of hair, but these results are disappointing. People suffering from vitiligo, over-pigmentation of skin, or without pigment in some spots, have reported an improvement of the skin after more PABA was . . .

DETD . . . levels of PABA are stored in the body and may cause liver damage. PABA is best used in combination with vitamin C and the B group vitamins, particularly folic acid. Long term antibiotic use may require more PABA from the body, but PABA affects the effectiveness of sulfa drugs. . . .

DETD . . . (B-1) 1-50 + 10.sup.-3 5-30 + 10.sup.-3

Riboflavin (B-2) 1-40 + 10.sup.-3 2-20 + 10.sup.-3

Niacin/Niacinamide (B-3) 0.5-150 + 10.sup.-3 10-150 + 10.sup.-3

Pantothenic Acid (B-5) 1-100 + 10.sup.-3 5-50 + 10.sup.-3

Pyridoxine (B-6) 1-100 + 10.sup.-3 1-50 + 10.sup.-3

Folate 100-3,000 + 10.sup.-6 200-2,000 + .

DETD . . . sulphur, and chloride) are present in the body in quantities of more than five grams. Trace elements, which include boron, copper, iron, manganese, selenium, and zinc are found in the body in quantities of less than five grams.

DETD Copper is another important trace element in the diet. The most common defect observed in copper-deficient animals is anemia. Other abnormalities include growth depression, skeletal defects, demyelination and degeneration of the nervous system, ataxia, defects in pigmentation and structure of hair or wool, reproductive failure, and cardiovascular lesions, including dissecting aneurisms. Several copper-containing metalloproteins have been isolated, including tyrosinase, ascorbic acid oxidase, laccase, cytochrome oxidase, uricase, monoamine oxidase, δ -aminolevulinic acid hydriydrase, and dopamine- β -hydroxylase. Copper functions in the absorption and utilization of iron, electron transport, connective tissue metabolism, phospholipid formation, purine metabolism, and development of the nervous system. Ferroxidase I (ceruloplasmin), a copper-containing enzyme, effects the oxidation of Fe(II) to Fe(III), a required step for mobilization of stored iron. A copper-containing enzyme is thought to be responsible for the oxidative deamination of the epsilon amino group of lysine to produce desmosine and isodesmosine, the cross-links of elastin. In copper-deficient animals the arterial elastin is weaker and dissecting aneurisms may occur. Copper is required in the formation of hemoglobin, red blood cells, and bones, while it helps with the formation of elastin and collagen, thus making it necessary for wound healing. Copper is also a constituent of superoxide dismutase (SOD), a powerful enzyme that scavenges free radicals in cells.

DETD . . . lipids, and proteins, as well as in the synthesis of glucose and lipids. Manganese also enables the body to utilize vitamin C, vitamin B-1, and biotin, as well as choline. Manganese is used in the manufacture of fat, sex hormones, and breast. Zinc is known to occur in many important metalloenzymes. These include carbonic anhydrase, carboxypeptidases A and B, alcohol dehydrogenase, glutamic dehydrogenase, . . . dehydrogenase, lactic

DETD . . .

DETD . . .

dehydrogenase, malic dehydrogenase, alkaline phosphatase, and aldolase. Impaired synthesis of nucleic acids and proteins has been observed in zinc deficiency. There is also evidence that zinc may be involved in the secretion of insulin and in the function of the hormone. Zinc is also necessary for a healthy immune system and is useful for treating skin conditions, such as acne and boils, and for treating sore throats. Zinc is also needed for cell division and for growth and maintenance of muscles. Children need zinc in the diet for normal growth and sexual development.

Zinc is also a constituent of superoxide dismutase (ZnSOD), which scavenges free radicals. Further, zinc is required for growth and maintenance of hair, nails, and skin.

DETD . . . 500-2,000 + 10.sup.-3 500-1,500 + 10.sup.-3

Magnesium 50-1,000 + 10.sup.-3 100-800 + 10.sup.-3

Chromium 10-500 + 10.sup.-6 10-300 + 10.sup.-6

Copper 1-10 + 10.sup.-3 1-5 + 10.sup.-3

Iodine 10-500 + 10.sup.-6 10-300 + 10.sup.-6

Iron 1-40 + 10.sup.-3 5-20 + 10.sup.-3

Molybdenum 5-200 + 10.sup.-6 10-100 + 10.sup.-6

Selenium 20-1,000 + 10.sup.-6 20-500 + 10.sup.-6

Zinc 2-100 + 10.sup.-3 5-40 + 10.sup.-3

Boron 100-1,000 + 10.sup.-6 200-800 + 10.sup.-6

Sodium 100-500 + 10.sup.-3 200-400 + 10.sup.-3

DETD . . . the art. U.S. Pat. No.5,292,538. Examples of minerals that can be provided as amino acid chelates include calcium, magnesium, manganese, zinc, iron, boron, copper, molybdenum, chromium, and silicon. Still further, minerals can be provided as organic compounds, such as ascorbates, citrates, picolinates, aspartates, carbonates. . . . Illustrative examples of various mineral forms according to the present invention include potassium bicarbonate, sodium bicarbonate, calcium carbonate, calcium ascorbate, zinc picolinate, manganese picolinate, copper aspartate, molybdenum trioxide, chromium picolinate, potassium iodide, boron citrate, silicon amino acid chelate, and the like.

DETD . . . free radicals and are believed to reduce the risk of cancer and heart disease, decrease allergy and arthritis symptoms, promote vitamin C activity, improve the strength of blood vessels, block the progression of cataracts and macular degeneration, treat menopausal hot flashes, and . . .

DETD . . . with the intake of very high dosage of inositol. Inositol is best used with choline, B group vitamins, vitamin E, vitamin C, and linoleic acid.

DETD . . . less joint deterioration. MSM is a non-metallic organic compound that plays an essential role in human nutrition. When amino acids, zinc, copper, silicon, and vitamin C are present, the body metabolizes MSM to sulfur. Sulfur, a structural component integral to new cell growth, is stored in . . .

DETD . . . 50 800 400

Vitamin E (IU) 200 500 800 750 200 400 150 300

Vitamin K (ug) 800 80 200 200 200 20

Vitamin C (mg) 200 1000 800 2000 1000

Thiamine (mg) 600 1800 900 800 10 40 5 50

| | | | | | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Riboflavin (mg) | 8 | 20 | 4 | 80 | more organic-solvent-extracted xanthenes; one or more vitamins selected from the group consisting of vitamin A, vitamin C, vitamin D, vitamin E, vitamin K, vitamin B-12, thiamine, riboflavin, niacin, pantothenic acid, pyridoxine, folic acid, biotin, derivatives thereof, and mixtures thereof; a flavoring agent; and an aqueous carrier. |
| Folate (µg) | 800 | 1200 | 2600 | 200 | |
| Vitamin B-12 (µg) | 60 | 100 | 150 | 5 | |
| Biotin (µg) | 300 | 200 | 50 | 1000 | |
| Pantothenic Acid (mg) | 15 | 20 | 5 | | |
| Choline (mg) | 100 | 80 | 40 | 200 | |
| Calcium (mg) | 600 | 1500 | 800 | 1200 | 1000 |
| Magnesium (mg) | 200 | 200 | 100 | 50 | 1000 |
| Chromium (µg) | 250 | 400 | 25 | 350 | |
| Copper (mg) | 1 | 10 | 2 | 4 | 2 |
| Iodine (µg) | 100 | 50 | 200 | 20 | |
| Iron (mg) | 5 | 40 | 20 | 10 | 50 |
| Molybdenum (µg) | 30 | 40 | 5 | 100 | |
| Selenium (µg) | 100 | 250 | 200 | 50 | 300 |
| Zinc (mg) | 10 | 80 | 20 | 40 | 100 |
| Boron (µg) | 500 | 100 | 800 | 300 | |
| Potassium (mg) | 250 | 100 | 50 | | |
| CLM | What is claimed is: | | | | |
| | a mixture of one or more organic-solvent-extracted xanthenes; one or more vitamins selected from the group consisting of vitamin A, vitamin C, vitamin D, vitamin E, vitamin K, vitamin B-12, thiamine, riboflavin, niacin, pantothenic acid, pyridoxine, folic acid, biotin, derivatives thereof, and mixtures thereof; a flavoring agent; and an aqueous carrier. | | | | |
| | drink composition of claim 1 further comprising one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof. | | | | |
| | mixture of one or more organic-solvent-extracted xanthenes; one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese, molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof; a flavoring agent; and an aqueous carrier. | | | | |
| | supplement drink composition of claim 11 further comprising one or more vitamins selected from the group consisting of vitamin A, vitamin C, vitamin D, vitamin E, vitamin K, vitamin B-12, thiamine, riboflavin, niacin, pantothenic acid, pyridoxine, folic acid, biotin, derivatives thereof, and mixtures thereof. | | | | |
| | a mixture of about 1-200+10 sup.-3 parts by weight of one or | | | | |

niacin or riboflavin, about 0.5-150+10.sup.-3 parts by weight of
by weight of niacinamide or a mixture thereof, 1-100+10.sup.-3 parts
parts by weight of pyridoxine, about 1-100+10.sup.-3
parts by weight of folic acid, about 100.sup.-3, 000+10.sup.-6
parts by weight of folic acid, about 2-160+10.sup.-6
weight of vitamin B-12, about 50-5,000+10.sup.-6 parts by
weight of biotin, about 25-600+10.sup.-3 parts by.

16 ANSWER 5 OF 5 USPTAFULL on STN
ACCESSION NUMBER: 2006:136977 USPTAFULL FULL-text
TITLE: Nutritional supplements containing xanthone extracts
INVENTOR(S): Foulger, Sidney W., Potomac, MD, UNITED STATES
Wu, Yue Xuan, Rockville, MD, UNITED STATES

| NUMBER | KIND | DATE |
|-----------------------|--------------------------------------------------------|---------------|
| US 2006115555 | A1 | 20060601 |
| US 2004-1650 | A1 | 20041201 (11) |
| UTILITY | | |
| APPLICATION | | |
| LEGAL REPRESENTATIVE: | ALAN J. HOWARTH, P.O. BOX 1909, SANDY, UT, 84091-1909, | |

NUMBER OF CLAIMS: 38
EXEMPLARY CLAIM: 1
LINE COUNT: 1892
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . mixture of one or more organic-solvent-extracted xanthenes and
one or more vitamins selected from the group consisting of vitamin A,
vitamin C, vitamin D, vitamin E, vitamin K, vitamin
B-12, thiamine, riboflavin, niacin, pantothenic acid,
pyridoxine, folic acid, biotin, derivatives thereof, and
mixtures thereof. This nutritional supplement composition can also
contain one or more minerals selected from the group consisting of
calcium, magnesium, chromium, copper, iodine, iron, manganese
molybdenum, selenium, zinc, boron, sodium, potassium, silicon,
and mixtures thereof; one or more carotenoids selected from the group
consisting of β -carotene, lutein, lycopene.

SUMM . . . of one or more organic-solvent-extracted xanthenes and one or
more minerals selected from the group consisting of calcium, magnesium,
chromium, copper, iodine, iron, manganese molybdenum,
selenium, zinc, boron, sodium, potassium, silicon, and
mixtures thereof.

SUMM . . . a mixture of about 1-200+10.sup.-3 parts by weight of
one or more organic-solvent-extracted xanthenes, about
100-3,000+10.sup.-3 parts by weight of vitamin C
, about 10-800 international units of vitamin E, about
500-2,000+10.sup.-3 parts by weight of calcium, about
1-10+10.sup.-3 parts by weight of copper, about
1-40+10.sup.-3 parts by weight of iron, about 1-50+10.sup.-3
parts by weight of manganese, about 2-100+10.sup.-3 parts by
weight of zinc, about 20-1,000+10.sup.-6 parts by weight
of selenium, about 1-200+10.sup.-3 parts by weight of
 β -carotene, about 10-1,000+10.sup.-6 parts by weight of.

SUMM . . . or more organic-solvent-extracted xanthenes and
(a) one or more vitamins selected from the group consisting of vitamin A,
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B-12, thiamine, riboflavin, niacin, pantothenic acid,
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SUMM

mixtures thereof; or
(b) one or more minerals selected from the group consisting of calcium,
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DETD

. . . an amount sufficient to prevent a deficiency thereof or to
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acid, vitamin D, selenium), skin (selenium), cervix (folic
acid), and breast (vitamin D); osteoporosis (vitamin D,
vitamin K, calcium, magnesium, vanadium, and possibly boron and
copper); osteoarthritis (calcium); macular degeneration or
cataracts (riboflavin, vitamin C, vitamin E,
selenium); heart disease (vitamin E, folic acid, pyridoxine,
vitamin A, magnesium, selenium, copper); neurologic disease
(thiamine, niacin, pantothenic acid, folic acid,
vitamin B-12); or Alzheimer's disease (vitamin E), or to aid in
regeneration of connective tissue (vitamin C,
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10.sup.-3
Riboflavin (B-2) 1-40 + 10.sup.-3 2-20 + 10.sup.-3
Niacin/Niacinamide (B-3) 0.5-150 + 10.sup.-3 10-150 +
10.sup.-3
Pantothenic Acid (B-5) 1-100 + 10.sup.-3 5-50 +
10.sup.-6
Pyridoxine (B-6) 1-100 + 10.sup.-3 1-50 + 10.sup.-3
Folate 100-3,000 + 10.sup.-6 200-2,000 + .

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DETD Copper is another important trace element in the diet. The most common defect observed in copper-deficient animals is anemia. Other abnormalities include growth depression, skeletal defects, demyelination and degeneration of the nervous system, ataxia, defects in pigmentation and structure of hair or wool, reproductive failure, and cardiovascular lesions, including dissecting aneurisms. Several copper-containing metalloproteins have been isolated, including tyrosinase, ascorbic acid oxidase, laccase, cytochrome oxidase, uricase, monoamine oxidase, 8-aminolevulinic acid hydriyase, and dopamine-β-hydroxylase. Copper functions in the absorption and utilization of iron, electron transport, connective tissue metabolism, phospholipid formation, purine metabolism, and development of the nervous system. Ferroxidase I (ceruloplasmin), a copper-containing enzyme, effects the oxidation of Fe(II) to Fe(III), a required step for mobilization of stored iron. A copper-containing enzyme is thought to be responsible for the oxidative deamination of the epsilon amino group of lysine to produce desmosine and isodesmosine, the cross-links of elastin. In copper-deficient animals the arterial elastin is weaker and dissecting aneurisms may occur. Copper is required in the formation of hemoglobin, red blood cells, and bones, while it helps with the formation of elastin and collagen, thus making it necessary for wound healing. Copper is also a constituent of superoxide dismutase (SOD), a powerful enzyme that scavenges free radicals in cells.

DETD . . . lipids, and proteins, as well as in the synthesis of glucose and lipids. Manganese also enables the body to utilize vitamin C, vitamin B-1, and biotin, as well as choline. Manganese is used in the manufacture of fat, sex hormones, and breast. . . .

DETD Zinc is known to occur in many important metalloenzymes. These include carbonic anhydrase, carboxypeptidases A and B, alcohol dehydrogenase, glutamic dehydrogenase, . . . dehydrogenase, lactic dehydrogenase, malic dehydrogenase, alkaline phosphatase, and aldolase. Impaired synthesis of nucleic acids and proteins has been observed in zinc deficiency. There is also evidence that zinc may be involved in the secretion of insulin and in the function of the hormone. Zinc is also necessary for a healthy immune system and is useful for treating skin conditions, such as acne and boils, and for treating sore throats. Zinc is also needed for cell

division and for growth and maintenance of muscles. Children need zinc in the diet for normal growth and sexual development. Zinc is also a constituent of superoxide dismutase (ZnSOD), which scavenges free radicals. Further, zinc is required for growth and maintenance of hair, nails, and skin.

| DETD | Minerals | Weight | Broad | Typical |
|------|------------|-----------------------|-----------------------|---------|
| | Calcium | 500-2,000 + 10 sup.-3 | 500-1,500 + 10 sup.-3 | |
| | Magnesium | 50-1,000 + 10 sup.-3 | 100-800 + 10 sup.-3 | |
| | Chromium | 10-500 + 10 sup.-6 | 10-300 + 10 sup.-6 | |
| | Copper | 1-10 + 10 sup.-3 | 1-5 + 10 sup.-3 | |
| | Iodine | 10-500 + 10 sup.-6 | 10-300 + 10 sup.-6 | |
| | Iron | 1-40 + 10 sup.-3 | 5-20 + 10 sup.-3 | |
| | Manganese | 1-50 + 10 sup.-3 | 2-25 + 10 sup.-3 | |
| | Molybdenum | 5-20 + 10 sup.-6 | 10-100 + 10 sup.-6 | |
| | Selenium | 20-1,000 + 10 sup.-6 | 20-500 + 10 sup.-6 | |
| | Zinc | 2-100 + 10 sup.-3 | 5-40 + 10 sup.-3 | |
| | Boron | 100-1,000 + 10 sup.-6 | 200-800 + 10 sup.-6 | |
| | Sodium | 100-500 + 10 sup.-3 | 200-400 + 10 sup.-3 | |
| | Potassium | 10-500 + | | |

art. U.S. Pat. No. 5,292,538. Examples of minerals that can be provided as amino acid chelates include calcium, magnesium, manganese, zinc, iron, boron, copper, molybdenum, chromium, and silicon. Still further, minerals can be provided as organic compounds, such as ascorbates, citrates, picolinates, aspartates, carbonates. Illustrative examples of various mineral forms according to the present invention include potassium bicarbonate, sodium bicarbonate, calcium carbonate, calcium ascorbate, zinc picolinate, manganese picolinate, copper aspartate, molybdenum trioxide, chromium picolinate, potassium iodide, boron citrate, silicon amino acid chelate, and the like.

free radicals and are believed to reduce the risk of cancer and heart disease, decrease allergy and arthritis symptoms, promote vitamin C activity, improve the strength of blood vessels, block the progression of cataracts and macular degeneration, treat menopausal hot flashes, and.

with the intake of very high dosage of inositol. Inositol is best used with choline, B group vitamins, vitamin E, vitamin C, and linoleic acid.

less joint deterioration. MSM is a non-metallic organic compound that plays an essential role in human nutrition. When amino acids, zinc, copper, silicon, and vitamin C are present, the body metabolizes MSM to sulfur. Sulfur, a structural component integral to new cell growth, is stored in.

| | | | | | | | | | |
|------|-------------------|-----|------|------|------|------|-----|-----|-----|
| DETD | Vitamin E (IU) | 200 | 500 | 800 | 750 | 200 | 400 | 150 | 300 |
| | Vitamin K (µg) | 80 | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| | Vitamin C (mg) | 200 | 1000 | 800 | 2000 | 1000 | | | |
| | Thiamine (mg) | 10 | 40 | 5 | 50 | | | | |
| | Riboflavin (mg) | 8 | 20 | 4 | 80 | | | | |
| | Folate (µg) | 800 | 1200 | 2600 | 200 | | | | |
| | Vitamin B-12 (µg) | 60 | 100 | 150 | 5 | | | | |

| | | | | | | |
|-----|-----------------------|-----|------|-----|------|------|
| 60 | Biotin (µg) | 300 | 300 | 200 | 50 | 1000 |
| 300 | Pantothenic Acid (mg) | 15 | 20 | | 5 | |
| 75 | Choline (mg) | 100 | 80 | | 40 | 200 |
| 100 | Calcium (mg) | 600 | 1500 | 800 | 1200 | 1000 |
| 800 | Magnesium (mg) | 200 | | 100 | 50 | 1000 |
| 200 | Chromium (µg) | 250 | | 400 | 25 | 350 |
| 250 | Copper (mg) | 1 | 10 | 2 | 4 | 2 |
| 2 | Iodine (µg) | 100 | | 50 | 200 | 20 |
| 100 | Iron (mg) | 5 | 40 | 20 | 10 | 50 |
| 5 | Molybdenum (µg) | 30 | | 40 | 5 | 100 |
| 30 | Selenium (µg) | 100 | 500 | 250 | 200 | 50 |
| 250 | Zinc (mg) | 10 | 80 | 20 | 40 | 100 |
| 10 | Boron (µg) | 500 | | 100 | 800 | 300 |
| 500 | Potassium (mg) | 250 | | 100 | 50 | |

CLM What is claimed is:

. . . mixture of one or more organic-solvent-extracted xanthenes and one or more vitamins selected from the group consisting of vitamin A, vitamin C, vitamin D, vitamin E, vitamin K, vitamin B-12, thiamine, riboflavin, niacin, pantothenic acid, pyridoxine, folic acid, biotin, derivatives thereof, and mixtures thereof.

. . . supplement composition of claim 1 further comprising one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese, molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof.

. . . of one or more organic-solvent-extracted xanthenes and one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese, molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof.

. . . nutritional supplement composition of claim 13 further comprising one or more vitamins selected from the group consisting of vitamin A, vitamin C, vitamin D, vitamin E, vitamin K, vitamin B-12, thiamine, riboflavin, niacin, pantothenic acid, pyridoxine, folic acid, biotin, derivatives thereof, and mixtures thereof.

. . . a mixture of about 1-200+10 sup.-3 parts by weight of one or more organic-solvent-extracted xanthenes, about 100-3,000+10 sup.-3 parts by weight of vitamin C, about 10-800 international units of vitamin E, about 500-2,000+10 sup.-3 parts

by weight of calcium, about 1-10+10.sup.-3 parts by weight of copper, about 1-40+10.sup.-3 parts by weight of iron, about 1-50+10.sup.-3 parts by weight of manganese, about 2-20+10.sup.-3 parts by weight of zinc, about 200-1,000+10.sup.-6 parts by weight of selenium, about 1-1-200+10.sup.-3 parts by weight of β-carotene, about 10-1-1,000+10.sup.-6 parts by weight of:

(a) of riboflavin, about 0.5-150+10.sup.-3 parts by weight of niacin or nicotinamide or a mixture thereof, 1-100+10.sup.-3 parts by weight of pantothenic acid, about 1-100+10.sup.-3 parts by weight of pyridoxine, about 100-3,000+10.sup.-6 parts by weight of folic acid, about 2-160+10.sup.-6 parts by weight of vitamin B-12, about 50-5,000+10.sup.-6 parts by weight of biotin, about 25-600+10.sup.-3 parts by:

(b) a mixture of about 1-200+10.sup.-3 parts by weight of one or more extracted xanthones, about 100-3,000+10.sup.-3 parts by weight of vitamin C, about 10-800 international units of vitamin E, about 1,000-10,000 international units of vitamin A, about 0.5-1,000 international units of vitamin K, about 0.5-150+10.sup.-3 parts by weight of niacin or nicotinamide or a mixture thereof, 1-100+10.sup.-3 parts by weight of pantothenic acid, about 1-100+10.sup.-3 parts by weight of pyridoxine, about 100-3,000+10.sup.-6 parts by weight of folic acid, about 2-160+10.sup.-6 parts by weight of vitamin B-12, about 50-5,000+10.sup.-6 parts by weight of biotin, about 25-600+10.sup.-3 parts by:

(c) 1-100+10.sup.-3 parts by weight of para-aminobenzoic acid, about 500-2,000+10.sup.-3 parts by weight of calcium, about 1-10+10.sup.-3 parts by weight of copper, about 1-40+10.sup.-3 parts by weight of iron, about 1-50+10.sup.-3 parts by weight of manganese, about 2-100+10.sup.-3 parts by weight of zinc, about 20-1,000+10.sup.-6 parts by weight of selenium, about 50-1-1,000+10.sup.-3 parts by weight of magnesium, about 10-500+10.sup.-6 parts by weight of:

(d) one or more organic-solvent-extracted xanthones and (a) one or more vitamins selected from the group consisting of vitamin A, vitamin C, vitamin D, vitamin E, vitamin K, vitamin B-12, thiamine, riboflavin, niacin, pantothenic acid, pyridoxine, folic acid, biotin, derivatives thereof, and mixtures thereof; or (b) one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese, molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof; or (c) one or more carotenoids selected from the group consisting of β-carotene, . .

. . a mixture of about 1-200+10.sup.-3 parts by weight of one or more extracted xanthones, about 100-3,000+10.sup.-3 parts by weight of vitamin C, about 10-800 international units of vitamin E, about 500-2,000+10.sup.-3 parts by weight of calcium, about 1-10+10.sup.-3 parts by weight of copper, about 1-40+10.sup.-3 parts by weight of iron, about 1-50+10.sup.-3 parts by weight of manganese, about 2-100+10.sup.-3 parts by weight of zinc, about 20-1,000+10.sup.-6 parts by weight of selenium, about 50-1-1,000+10.sup.-3 parts by weight of magnesium, about 10-1,000+10.sup.-6 parts by weight of:

(e) 1-100+10.sup.-3 parts by weight of niacin or nicotinamide or a mixture thereof, 1-100+10.sup.-3 parts by weight of pantothenic acid, about 1-100+10.sup.-3 parts by weight of pyridoxine, about 100-3,000+10.sup.-6 parts by

=> d15 1-11 ibib kwic

The previous command name entered was not recognized by the system. For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

L5 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:722741 HCAPLUS Full-text
DOCUMENT NUMBER: 141:219003

INVENTOR(S) :

SOURCE: U.S. Pat. Appl. Publ., 7 pp.

DOCUMENT TYPE:

| FAMILY ACC. | NUM. | COUNT: |
|-------------|------|--------|
| 1. | | |

NOTES ON THE CONTRIBUTORS

PATENT NO.

US 2004170702

WO 2004/075849

BG, BR, BR,

ES, FI, FI,

LK, LR, LS,

RW: BW, GH, GM,

MC, NL, PT.

GO- GW- MT-

DE 1470022 DT DT DE CW

IT, TS, AT
IE, SI, LI
UNCOMMON PROPERTY

ABSTRACT

patient suffering

repigmentation can

ST vitamin B12 subling

combination therapy

IT Combination chemotherapy

Будет ли это?

Human
Ovarian cycle
Sex
Shampoos
Solar UV radiation
UV radiation
Vittiligo
(method and composition for treating hypopigmentation of hair and skin)
IT 50-81-7, Vitamin C, biological studies 59-30-3,
Folic acid, biological studies 68-19-9, Vitamin B12
79-83-4, Pantothenic acid 7440-50-8, Copper, biological
studies 7440-66-6, Zinc, biological studies 7647-01-0,
Hydrochloric acid, biological studies
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(method and composition for treating hypopigmentation of hair and skin)

L5 ANSWER 2 OF 11 USPATFULL on STN
ACCESSION NUMBER: 2007:29841 USPATFULL Full-text
TITLE: Nutritional supplements containing xanthone extracts
INVENTOR(S): Foulger, Sidney W., Potomac, MD, UNITED STATES

| NUMBER | KIND | DATE |
|---------------------------------------------------------------------|------|---------------|
| US 2007026109 | A1 | 20070201 |
| US 2006-474087 | A1 | 20060623 (11) |
| Continuation of Ser. No. US 2004-1650, filed on 1 Dec 2004, PENDING | | |

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: ALAN J. HOWARTH, P.O. BOX 1909, SANDY, UT, 84091-1909, US 35

NUMBER OF CLAIMS: 35
EXEMPLARY CLAIM: 1
LINE COUNT: 1886

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . mixture of one or more organic-solvent-extracted xanthones and one or more vitamins selected from the group consisting of vitamin A, vitamin C, vitamin D, vitamin E, vitamin K, vitamin B-12, thiamine, riboflavin, niacin, pantothenic acid, pyridoxine, folic acid, biotin, derivatives thereof, and mixtures thereof.
This nutritional supplement composition can also contain one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof; one or more carotenoids selected from the group consisting of β -carotene, lutein, lycopene, . . .
one or more organic-solvent-extracted xanthones and one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof.

SUMM . . . a mixture of about 1-200+10.sup.-3 parts by weight of one or more organic-solvent-extracted xanthones, about 100-3,000+10.sup.-3 parts by weight of vitamin C, about 10-800 international units of vitamin E, about 500-2,000+10.sup.-3 parts by weight of calcium, about 1-10+10.sup.-3 parts by weight of copper, about 1-40+10.sup.-3 parts by weight of iron, about 1-50+10.sup.-3 parts by weight of manganese, about 2-100+10.sup.-3 parts by weight of zinc, about 20-1,000+10.sup.-6 parts by weight of selenium, about 1-200+10.sup.-3 parts by weight of β -carotene, about 10-1,000+10.sup.-6 parts by weight of . . .
an amount sufficient to prevent a deficiency thereof or to reduce the incidence of some cancers, i.e., lung (vitamin E, folic acid, vitamin D, selenium), prostate (vitamin E, vitamin D, selenium), stomach (vitamin C), colorectal (folic acid, vitamin D, selenium), skin (selenium), cervix (folic acid), and breast (vitamin D); osteoporosis (vitamin D, vitamin K, calcium, magnesium, vanadium, and possibly boron and copper); osteoarthritis (calcium); macular degeneration or cataracts (riboflavin, vitamin C, vitamin E, selenium); heart disease (vitamin E, folic acid, pyridoxine, thiamine, niacin, pantothenic acid, folic acid, vitamin B-12); or Alzheimer's disease (vitamin E), or to aid in regeneration of connective tissue (vitamin C, copper, iron, manganese, zinc). An effective amount of a carotenoid is an amount sufficient to provide a beneficial effect, such as reduce the incidence.
Vitamin C, or ascorbic acid, is known to be essential for the formation of intercellular collagen. Symptoms of scurvy, due to vitamin C deficiency, include bleeding gums, easy bruising, and a tendency toward bone fractures. All these symptoms are a result of the requirement for vitamin C in the development of the ground substance between cells. This ground substance, primarily collagen, is the cement that gives our . . . points to the relationship of the vitamin in maintenance of tooth structures, matrix of bone, and the walls of capillaries.
Vitamin C is essential for the healing of bone fractures. Such fractures heal slowly in a patient deficient in vitamin C. This is true also of wound healing.
Vitamin C is also an antioxidant. Oxygen is a highly reactive element, and the process of reacting with certain chemicals is termed. . . free-radical damage appears to contribute to chronic conditions and the more antioxidant nutrition supplementation is realized to be is essential. Vitamin C is the most effective water-soluble antioxidant in human plasma. Vitamin

SUMM (a) one or more vitamins selected from the group consisting of vitamin A, vitamin C, vitamin D, vitamin E, vitamin K, vitamin B-12, thiamine, riboflavin, niacin, pantothenic acid, pyridoxine, folic acid, biotin, derivatives thereof, and mixtures thereof; or
(b) one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof; or
. . . a mixture of about 1-200+10.sup.-3 parts by weight of one or more organic-solvent-extracted xanthones, about 100-3,000+10.sup.-3 parts by weight of vitamin C, about 10-800 international units of vitamin E, about 500-2,000+10.sup.-3 parts by weight of calcium, about 1-10+10.sup.-3 parts by weight of copper, about 1-40+10.sup.-3 parts by weight of iron, about 1-50+10.sup.-3 parts by weight of manganese, about 2-100+10.sup.-3 parts by weight of zinc, about 20-1,000+10.sup.-6 parts by weight of selenium, about 1-200+10.sup.-3 parts by weight of β -carotene, about 10-1,000+10.sup.-6 parts by weight of . . .
an amount sufficient to prevent a deficiency thereof or to reduce the incidence of some cancers, i.e., lung (vitamin E, folic acid, vitamin D, selenium), prostate (vitamin E, vitamin D, selenium), stomach (vitamin C), colorectal (folic acid, vitamin D, selenium), skin (selenium), cervix (folic acid), and breast (vitamin D); osteoporosis (vitamin D, vitamin K, calcium, magnesium, vanadium, and possibly boron and copper); osteoarthritis (calcium); macular degeneration or cataracts (riboflavin, vitamin C, vitamin E, selenium); heart disease (vitamin E, folic acid, pyridoxine, thiamine, niacin, pantothenic acid, folic acid, vitamin B-12); or Alzheimer's disease (vitamin E), or to aid in regeneration of connective tissue (vitamin C, copper, iron, manganese, zinc). An effective amount of a carotenoid is an amount sufficient to provide a beneficial effect, such as reduce the incidence.
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DETD . . . an amount sufficient to prevent a deficiency thereof or to reduce the incidence of some cancers, i.e., lung (vitamin E, folic acid, vitamin D, selenium), prostate (vitamin E, vitamin D, selenium), stomach (vitamin C), colorectal (folic acid, vitamin D, selenium), skin (selenium), cervix (folic acid), and breast (vitamin D); osteoporosis (vitamin D, vitamin K, calcium, magnesium, vanadium, and possibly boron and copper); osteoarthritis (calcium); macular degeneration or cataracts (riboflavin, vitamin C, vitamin E, selenium); heart disease (vitamin E, folic acid, pyridoxine, thiamine, niacin, pantothenic acid, folic acid, vitamin B-12); or Alzheimer's disease (vitamin E), or to aid in regeneration of connective tissue (vitamin C, copper, iron, manganese, zinc). An effective amount of a carotenoid is an amount sufficient to provide a beneficial effect, such as reduce the incidence.
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C is also a requirement for the proper functioning of the immune system. It is involved in white blood cell production, T-cells, and macrophages. In addition, vitamin C is required in the synthesis of neurotransmitters, steroid hormones, and carnitine, and in the conversion of cholesterol to bile acids and for enhancing iron availability. Vitamin C prevents degenerative diseases, such as cataracts, certain cancers, and cardiovascular diseases. Further, vitamin C promotes healthy cell development, proper calcium absorption, and normal tissue growth and repair, such as in healing of wounds and burns. Still further, vitamin C assists in prevention of blood clotting and bruising, and it strengthens capillary walls. Moreover, it protects against infection and assists.

DETD . . . is also an essential component of enzymes and aids in the utilization of protein and certain other vitamins, such as folic acid, pantothenic acid, and vitamin B-12.

DETD Folic acid or folacin is one of the important hematopoietic agents necessary for proper regeneration of blood-forming elements and their functioning. That is, folic acid is essential for creating heme, the iron-containing substance in hemoglobin, which is crucial for oxygen transport in the body. Folic acid is also involved as a coenzyme in intermediary metabolic reactions in which one-carbon units are transferred. These reactions are . . . of purines and pyrimidines is ultimately linked with that of nucleotides and ribo- and deoxyribo-nucleic acids, functional elements in all cells. Folic acid also assists in digestion, in proper functioning of the nervous system, and improving mental and emotional health. Folic acid may be effective in treating depression and anxiety. Folic acid is also very important in the development of the nervous system and of a developing fetus.

DETD . . . to facilitate reduction reactions and participate in the transfer of methyl groups. Its chief importance seems to be, together with folic acid, in the anabolism of DNA in all cells. It is a requisite for normal blood formation, and certain macrocytic. . . humans. The Institute of Medicine noted: "Healthy males with normal folate and vitamin B12 status fed a choline deficient diet have diminished plasma choline and phosphatidylcholine concentrations, and develop liver damage. For these humans, . . . it is actually a nutritional ingredient as well. Since it is a moiety of pteroylglutamic acid (PGA), a form of folic acid, some health professionals do not consider it a vitamin, but only a B-complex factor.

DETD . . . such, it aids in the utilization of amino acids, supports red blood cell formation, and assists in the manufacture of folic acid in the intestines. It has been linked to hair growth, as well as reversing the graying of hair, but these results are disappointing. People suffering from vitiligo, over-pigmentation of skin, or without pigment in some spots, have reported an improvement of the skin after more PABA was. . .

DETD . . . levels of PABA are stored in the body and may cause liver damage. PABA is best used in combination with vitamin C and the B group vitamins, particularly folic acid. Long term antibiotic use may require more PABA from the body, but PABA affects the effectiveness of sulfa drugs. . .

DETD . . . sulphur, and chloride) are present in the body in quantities of more than five grams. Trace elements, which include boron, copper, iron, manganese, selenium, and zinc are found in the body in quantities of less than five grams.

DETD Copper is another important trace element in the diet. The

most common defect observed in copper-deficient animals is anemia. Other abnormalities include growth depression, skeletal defects, demyelination and degeneration of the nervous system, ataxia, defects in pigmentation and structure of hair or wool, reproductive failure, and cardiovascular lesions, including dissecting aneurisms. Several copper-containing metalloproteins have been isolated, including tyrosinase, ascorbic acid oxidase, laccase, cytochrome oxidase, uricase, monamine oxidase, 8-aminolevulinic acid hydrolase, and dopamine- β -hydroxylase. Copper functions in the absorption and utilization of iron, electron transport, connective tissue metabolism, phospholipid formation, purine metabolism, and development of the nervous system. Ferroxidase I (ceruloplasmin), a copper-containing enzyme, effects the oxidation of Fe(II) to Fe(III), a required step for mobilization of stored iron. A copper-containing enzyme is thought to be responsible for the oxidative deamination of the epsilon amino group of lysine to produce desmosine and isodesmosine, the cross-links of elastin. In copper-deficient animals the arterial elastin is weaker and dissecting aneurisms may occur. Copper is required in the formation of hemoglobin, red blood cells, and bones, while it helps with the formation of elastin and collagen, thus making it necessary for wound healing. Copper is also a constituent of superoxide dismutase (SOD), a powerful enzyme that scavenges free radicals in cells.

DETD . . . lipids, and proteins, as well as in the synthesis of glucose and lipids. Manganese also enables the body to utilize vitamin C, vitamin B-1, and biotin, as well as choline. Manganese is used in the manufacture of fat, sex hormones, and breast. Zinc is known to occur in many important metalloenzymes. These include carbonic anhydrase, carboxypeptidases A and B, alcohol dehydrogenase, glutamic dehydrogenase, . . . D-glyceraldehyde-3-phosphate dehydrogenase, lactic dehydrogenase, malic dehydrogenase, alkaline phosphatase, and aldolase. Impaired synthesis of nucleic acids and proteins has been observed in zinc deficiency. There is also evidence that zinc may be involved in the secretion of insulin and in the function of the hormone. Zinc is also necessary for a healthy immune system and is useful for treating skin conditions, such as acne and boils, and for treating sore throats. Zinc is also needed for cell division and for growth and maintenance of muscles. Children need zinc in the diet for normal growth and sexual development. Zinc is also a constituent of superoxide dismutase (ZnSOD), which scavenges free radicals. Further, zinc is required for growth and maintenance of hair, nails, and skin.

DETD . . . + 10.sup.-3 500-1,500 + 10.sup.-3
Magnesium 50-1,000 + 10.sup.-3 100-800 + 10.sup.-3
Chromium 10-500 + 10.sup.-6 10-300 + 10.sup.-6
Copper 1-10 + 10.sup.-3 1-5 + 10.sup.-3
Iodine 10-500 + 10.sup.-6 10-300 + 10.sup.-6
Iron 1-40 + 10.sup.-3 5-20 + 10.sup.-3
Molybdenum 1-50 + 10.sup.-3 2-25 + 10.sup.-3
Selenium 5-200 + 10.sup.-6 10-100 + 10.sup.-6
Zinc 20-1,000 + 10.sup.-6 20-500 + 10.sup.-6
Zinc 2-100 + 10.sup.-3 5-40 +
10.sup.-3
Boron 100-1,000 + 10.sup.-6 200-800 + 10.sup.-6
Sodium 100-500 + 10.sup.-3 200-400 + 10.sup.-3

DETD . . . art. U.S. Pat. No. 5,292,538. Examples of minerals that can be provided as amino acid chelates include calcium, magnesium, manganese,

zinc, iron, boron, copper, molybdenum, chromium, and silicon. Still further, minerals can be provided as organic compounds, such as ascorbates, citrates, picolinates, aspartates, carbonates, . . . Illustrative examples of various mineral forms according to the present invention include potassium bicarbonate, sodium bicarbonate, calcium carbonate, calcium ascorbate, zinc picolinate, manganese picolinate, copper aspartate, molybdenum trioxide, chromium picolinate, potassium iodide, boron citrate, silicon amino acid chelate, and the like.

DETD . . . free radicals and are believed to reduce the risk of cancer and heart disease, decrease allergy and arthritis symptoms, promote vitamin C activity, improve the strength of blood vessels, block the progression of cataracts and macular degeneration, treat menopausal hot flashes, and . . .

DETD . . . With the intake of very high dosage of inositol. Inositol is best used with choline. B group vitamins, vitamin E, vitamin C, and linoleic acid.

DETD . . . less joint deterioration. MSM is a non-metallic organic compound that plays an essential role in human nutrition. When amino acids, zinc, copper, silicon, and vitamin C are present, the body metabolizes MSM to sulfur. Sulfur, a structural component integral to new cell growth, is stored in. . .

DETD . . . 50 800 400 200 500 800 750 200 400 150 300
Vitamin E (IU) 800

Vitamin K (µg) 80 200 200 20

Vitamin C (mg) 200 1000 800 2000 1000

Thiamine (mg) 10 40 5 50

Riboflavin (mg) 8 20 4 . . 600

Magnesium (mg) 200 100 100 50 1000

Chromium (µg) 250 250 400 25 350

Copper (mg) 1 10 2 4 2 10

Iodine (µg) 100 100 200 20 20

Iron (mg) 5 40 20 10 . . 50 4 2 40

Molybdenum (µg) 30 40 5 100

Selenium (µg) 100 500 250 200 50 300 50 800

Zinc (mg) 10 80 20 40 100 15 100

Boron (µg) 500 100 800 300

Potassium (mg) 250 100 50 . .

CLM What is claimed is:
 . . . (a) one or more organic-solvent-extracted xanthones; and (b) one or more vitamins selected from the group consisting of vitamin A, vitamin C, vitamin D, vitamin E, vitamin K, vitamin B-12, thiamine, riboflavin, niacin, pantothenic acid, pyridoxine, folic acid, biotin, derivatives thereof, and mixtures thereof.

. . . composition of claim 1 further consisting of one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese, molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof.

. . . one or more organic-solvent-extracted xanthones; and (b) one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese, molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof.

. . . a mixture of about 1-200+10.sup.-3 parts by weight of one or more organic-solvent-extracted xanthones, about 100-3,000+10.sup.-3 parts by weight of vitamin C, about 10-800

international units of vitamin E, about 500-2,000+10.sup.-3 parts by weight of calcium, about 1-10+10.sup.-3 parts by weight of copper, about 1-40+10.sup.-3 parts by weight of iron, about 1-50+10.sup.-3 parts by weight of manganese, about

2-100+10.sup.-3 parts by weight of zinc, about 20-1,000+10.sup.-6 parts by weight of selenium, about

1-200+10.sup.-3 parts by weight of β-carotene, about 10-1,000+10.sup.-6 parts by weight of . . .

. . . 1-100+10.sup.-3 parts by weight of pantothenic acid, about 1-100+10.sup.-3 parts by weight of pyridoxine, about

100-3,000+10.sup.-6 parts by weight of folic acid, about 2-160+10.sup.-6 parts by weight of vitamin B-12, about

50-5,000+10.sup.-6 parts by weight of biotin, about 25-600+10.sup.-3 parts by . . .

. . . a mixture of about 1-200+10.sup.-3 parts by weight of one or more extracted xanthones, about 100-3,000+10.sup.-3 parts by weight of vitamin C, about 10-800 international

units of vitamin E, about 1,000-10,000 international units of vitamin A, about 50-1,000 international units of vitamin . . .

1-100+10.sup.-3 parts by weight of pantothenic acid, about 1-100+10.sup.-3 parts by weight of pyridoxine, about

100-3,000+10.sup.-6 parts by weight of folic acid, about 2-160+10.sup.-6 parts by weight of vitamin B-12, about

50-5,000+10.sup.-6 parts by weight of biotin, about 25-600+10.sup.-3 parts by . . . 1-100+10.sup.-3 parts by

weight of para-aminobenzoic acid, about 500-2,000+10.sup.-3 parts by weight of calcium, about 1-10+10.sup.-3 parts by weight of

copper, about 1-40+10.sup.-3 parts by weight of iron, about 1-50+10.sup.-3 parts by weight of manganese, about

2-100+10.sup.-3 parts by weight of zinc, about 20-1,000+10.sup.-6 parts by weight of selenium, about

50-1,000+10.sup.-3 parts by weight of magnesium, about 10-500+10.sup.-6 parts by weight of . . .

. . . of one or more organic-solvent-extracted xanthones and (a) one or more vitamins selected from the group consisting of vitamin A,

vitamin C, vitamin D, vitamin E, vitamin K, vitamin B-12, thiamine, riboflavin, niacin, pantothenic acid, pyridoxine,

folic acid, biotin, derivatives thereof, and mixtures thereof; or (b) one or more minerals selected from the group consisting of

calcium, magnesium, chromium, copper, iodine, iron, manganese, molybdenum, selenium, zinc, boron, sodium, potassium, silicon,

and mixtures thereof; or (c) one or more carotenoids selected from the group consisting of β-carotene. . .

. . . a mixture of about 1-200+10.sup.-3 parts by weight of one or more extracted xanthones, about 100-3,000+10.sup.-3 parts by

weight of vitamin C, about 10-800 international

units of vitamin E, about 500-2,000+10.sup.-3 parts by weight of calcium, about 1-10+10.sup.-3 parts by weight of copper, about 1-40+10.sup.-3 parts by weight of iron, about 1-50+10.sup.-3 parts by weight of manganese, about 2-100+10.sup.-3 parts by weight of zinc, about 20-1,000+10.sup.-6 parts by weight of selenium, about 1-200+10.sup.-3 parts by weight of beta-carotene, about 10-1,000+10.sup.-6 parts by weight of . . .
1-100+10.sup.-3 parts by weight of pantothenic acid, about 100-3,000+10.sup.-6 parts by weight of pyridoxine, about 2-160+10.sup.-6 parts by weight of folic acid, about 50-5,000+10.sup.-6 parts by weight of biotin.

L5 ANSWER 3 OF 11 USPTAFULL on STN
ACCESSION NUMBER: 2007:5572 USPTAFULL Full-text
TITLE: Triazoloxyridine cannabinoid receptor 1 antagonists
INVENTOR(S): Sun, Chongqing, East Windsor, NJ, UNITED STATES
Sher, Philip M., Plainsboro, NJ, UNITED STATES
Wu, Gang, Princeton, NJ, UNITED STATES
Ewing, William R., Yardley, PA, UNITED STATES
Huang, Yanting, Pennington, NJ, UNITED STATES
Lee, Taekyu, Doylestown, PA, UNITED STATES
Murugesan, Natesan, Princeton Junction, NJ, UNITED STATES
Sulsky, Richard B., West Trenton, NJ, UNITED STATES

PATENT INFORMATION: US 2007004772 A1 20070104
APPLICATION INFO.: US 2006-454322 A1 20060616 (11)

PRIORITY INFORMATION: US 2005-692043P 20050617 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: LOUIS J. WILLE, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000, US

NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
LINE COUNT: 6023
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

DETD A mixture of 2-((5-bromopyridin-2-yl)methyl)-7-(4-chlorophenyl)-8-(pyridin-4-yl)-[1,2,4]triazolo[4,3-a]pyridin-3(2H)-one (29.6 mg, 0.06 mmol), pyrazole (22.5 mg, 0.33 mmol), copper (I) iodide (8 mg, 0.042 mmol), potassium carbonate (25 mg, 0.18 mmol) and N,N-dimethylethylenediamine (5.3 mg, 0.06 mmol) in 1. . .
C. To the resulting clear brownish solution, a suspension of zinc cyanide (85.3 mg, 0.73 mmol) in anhydrous DMF (1.5 ml) was added in five portions over 5 min. The reaction. . .

DETD . . . disease (autoimmune disease of the adrenal glands); autoimmune polyglandular disease (also known as autoimmune polyglandular syndrome); autoimmune alopecia; pernicious anemia; vitiligo; autoimmune hypopituitarism; Guillain-Barre syndrome; other autoimmune diseases; glomerulonephritis; serum sickness; uticaria; allergic diseases such as respiratory allergies (asthma, hayfever, allergic. . .

DETD . . . GB 2304106; an anti-oxidant such as beta-carotene, ascorbic

acid, alpha-tocopherol or retinol as disclosed in WO 94/15592 as well as Vitamin C and an antihomocysteine agent such as folic acid, a folate, Vitamin B6, Vitamin E12 and Vitamin E; isoniazid as disclosed in WO 97/35576; a cholesterol absorption inhibitor, an HMG-CoA synthase inhibitor, or a lanosterol.

L5 ANSWER 4 OF 11 USPTAFULL on STN
ACCESSION NUMBER: 2006:248357 USPTAFULL Full-text
TITLE: Use of phenylmethimazoles, methimazole derivatives, and tautomeric cyclic thiones for the treatment of autoimmune/inflammatory diseases associated with toll-like receptor overexpression

INVENTOR(S): Kohn, Leonard D., Athens, OH, UNITED STATES
Harii, Norikazu, Yamnashi, JAPAN
Benavides-Peralta, Uruguaysito, Montevideo, URUGUAY
Gonzalez-Murguondo, Mariana, Montevideo, URUGUAY
Lewis, Christopher J., Athens, OH, UNITED STATES
Napolitano, Giorgio, Pescara, ITALY
Giuliani, Cesidio, Roccamonce, ITALY
Malgor, Ramiro, Athens, OH, UNITED STATES
Goetz, Douglas J., Athens, OH, UNITED STATES

PATENT INFORMATION: US 2006211752 A1 20060921
APPLICATION INFO.: US 2005-130922 A1 20050517 (11)
RELATED APPL. INFO.: Continuation-in-part of Ser. No. US 2004-912948, filed on 6 Aug 2004, PENDING Continuation-in-part of Ser. No. US 2004-801986, filed on 16 Mar 2004, PENDING

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: FROST BROWN TODD, LLC, 2200 PNC CENTER, 201 E. FIFTH STREET, CINCINNATI, OH, 45202, US

NUMBER OF CLAIMS: 167
EXEMPLARY CLAIM: 1-138
NUMBER OF DRAWINGS: 17 Drawing Page(s)
LINE COUNT: 8384
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . Rheumatic Fever, Rheumatoid Arthritis, Sarcoidosis, Scleroderma, Sjogren's Syndrome, Stiffman Syndrome, Takayasu Arteritis, Temporal Arteritis/Giant Cell Arteritis, Ulcerative Colitis, Uveitis, Vasculitis, Vitiligo, Wegener's Granulomatosis, or myasthenia gravis.

SUMM . . . alpha/gamma agonists, vitamin B6 (also known as pyridoxine) and the pharmaceutically acceptable salts thereof such as the HCl salt; vitamin B12 (also known as cyanocobalamin); folic acid or a pharmaceutically acceptable salt or ester thereof such as the sodium salt and the methylglucamine salt; anti-oxidant vitamins such as vitamin C and E and beta carotene; beta-blockers; angiotensin II antagonists such as losartan; angiotensin converting enzyme inhibitors such as enalapril and. . .

DETD . . . acids including inorganic or organic bases and inorganic or organic acids. Salts derived from inorganic bases include: aluminum, ammonium, calcium, copper, ferric, ferrous, lithium, magnesium, manganese salts, manganous, potassium, sodium, zinc, and the like. Particularly preferred are the ammonium, calcium, magnesium, potassium, and sodium salts. Salts derived from pharmaceutically acceptable organic. . .
Elevated serum levels of homocysteine are highly correlated with

atherosclerosis, heart disease, stroke, and peripheral vascular disease. Vitamin B6, vitamin B12, and folic acid act to lower homocysteine levels and reduce the incidence of these disease states. Vitamin B6 may be included in amounts between about 2 mg and 2 grams. Vitamin B12 may be included in amounts between about 3 µg and 2 mg. Folic acid may generally be included in amounts up to about 5 mg, such as about 400 to 800 g, about.

CLM What is claimed is:

. Rheumatic Fever, Rheumatoid Arthritis, Sarcoidosis, Scleroderma, Sjogren's Syndrome, Stiffman Syndrome, Takayasu Arteritis, Temporal Arteritis/Giant Cell Arteritis, Ulcerative Colitis, Uveitis, Vasculitis, Vitiligo, Wegener's Granulomatosis, or myasthenia gravis.

. dual agonists, vitamin B6 (also known as pyridoxine) and the pharmaceutically acceptable salts thereof such as the HCl salt; vitamin B12 (also known as cyanocobalamin); folic acid or a pharmaceutically acceptable salt or ester thereof such as the sodium salt and the methylglucamine salt; anti-oxidant vitamins such as vitamin C and E and beta carotene; beta-blockers; angiotensin II antagonists such as losartan; angiotensin converting enzyme inhibitors such as enalapril and.

L5 ANSWER 5 OF 11 USPATFULL on STN
ACCESSION NUMBER: 2006:189410 USPATFULL Full-text
TITLE: Bicyclic heterocycles as cannabinoid receptor modulators

INVENTOR(S): Sun, Chongqing, East Windsor, NJ, UNITED STATES
Ewing, William R., Yardley, PA, UNITED STATES
Huang, Yanting, Pennington, NJ, UNITED STATES
Pendri, Annapurna, Glastonbury, CT, UNITED STATES
Gerritz, Samuel, Guilford, CT, UNITED STATES
Ellsworth, Bruce A., Princeton, NJ, UNITED STATES
Murugesan, Natesan, Princeton Junction, NJ, UNITED STATES

PATENT INFORMATION: US 2006:160850 A1 2006:0720
APPLICATION INFO.: US 2006:334204 A1 2006:0118 (11)

PRIORITY INFORMATION: US 2005:644644P 2005:0118 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: LOUIS J. WILLE, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000, US
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1

LINE COUNT: 1974

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
DETD . . . of a base, e.g. cesium carbonate, or an arylhalide in the presence of a transition metal catalyst (e.g., palladium or copper). Compounds of formula XI can be prepared by treating compound X with a reducing reagent (e.g., borane/THF complex or LAH/THF) . . .
DETD . . . trifluoroacetic acid, or sodium triacetoxymethylborohydride) or with an arylhalide in the presence of a transition metal catalyst (e.g., palladium or copper). Compounds of formula XVI can be prepared by removing the N-protection group (PG) under acidic (e.g., TFA for

Boc-), basic.
DETD . . . trifluoroacetic acid, or sodium triacetoxymethylborohydride) or with an arylhalide in the presence of a transition metal catalyst (e.g., palladium or copper). ##STR11##

DETD . . . by treatment of intermediate XIX with a heterocyclic (e.g. a lactam, pyridone, imidazole or pyrrole) in the presence of a copper catalyst. Compounds of formula Ia can be prepared by treatment of intermediate XIX with zinc cyanide in the presence of a palladium catalyst, e.g. Pd(PPh₃)₂.sub.4.

DETD A solution of (6-bromo-1,2,3,4-tetrahydroquinolin-3-yl)-carbamamic acid tert-butyl ester (250 mg, 0.76 mmol), prepared as described in Example 1B, and zinc cyanide (88 mg, 0.75 mmol) in DMF (2.5 mL) was bubbled with argon for 10 min, then tetrakis-(triphenylphosphine) palladium(0) (65 . . .

DETD . . . disease (autoimmune disease of the adrenal glands): Autoimmune polyglandular disease (also known as autoimmune polyglandular syndrome); autoimmune alopecia; pernicious anemia; vitiligo; autoimmune hypopituitarism; Guillain-Barre syndrome; other autoimmune diseases; glomerulonephritis; serum sickness; uticaria; allergic diseases such as respiratory allergies (asthma, hayfever, allergic . . .

DETD . . . GB 2304106; an anti-oxidant such as beta-carotene, ascorbic acid, α-tocopherol or retinol as disclosed in WO 94/15592 as well as Vitamin C and an antihomocysteine agent such as folic acid, a folate, Vitamin B6, Vitamin B12 and Vitamin E; isoniazid as disclosed in WO 97/35576; a cholesterol absorption inhibitor, an HMG-CoA synthase inhibitor, or a lanosterol . . .

L5 ANSWER 6 OF 11 USPATFULL on STN
ACCESSION NUMBER: 2006:158579 USPATFULL Full-text
TITLE: G protein coupled receptors and uses thereof

INVENTOR(S): Gaitanaris, George A., Seattle, WA, UNITED STATES
Bergmann, John E., Mercer Island, WA, UNITED STATES
Gragerov, Alexander, Seattle, WA, UNITED STATES
Hohmann, John, La Conner, WA, UNITED STATES
Li, Fusheng, Seattle, WA, UNITED STATES
Madisen, Linda, Seattle, WA, UNITED STATES
McIlwain, Kellie L., Renton, WA, UNITED STATES
Pavlova, Maria N., Seattle, WA, UNITED STATES
Vassiliadis, Demetri, Seattle, WA, UNITED STATES
Zeng, Hongkui, Shoreline, WA, UNITED STATES
Nura Inc., Seattle, WA, UNITED STATES, 98104 (U.S. corporation)

PATENT INFORMATION: US 2006:134109 A1 2006:0622
APPLICATION INFO.: US 2003:527265 A1 2003:0909 (10)
WO 2003-US28226 2006:0126 PCT 371 date

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2002-409303, filed on 9 Sep 2002, PENDING Continuation-in-part of Ser. No. US 2003-461329, filed on 9 Apr 2003, PENDING
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300, SEATTLE, WA, 98104-7092, US
NUMBER OF CLAIMS: 34
EXEMPLARY CLAIM: 1-642
NUMBER OF DRAWINGS: 9 Drawing Page(s)

GAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . erythrocyte enzyme deficiency, erythrocyte membrane defects, essential thrombocythemia, factor 7 deficiency, familial cyclic neutropenia, Felt's syndrome, fibrinolytic activity, folate antagonists, folic acid deficiency, Gaucher disease, Glanzmann's thrombasthenia, glucose-6-phosphate dehydrogenase deficiency, granulated T-cell lymphocyte leukemia, granulocytic sarcoma, granulocytosis, Hageman trait, hairy cell. . . chronic lymphoproliferative disorders, T-cell prolymphocytic leukemia, thalassemias, thrombocytopenia, thrombotic thrombocytopenic purpura, toxic granulation, toxic granules in severe infection, typhus, vitamin B12 deficiency, vitamin K deficiency, Von Willebrand's disease, Waldenström macroglobulinemia, and Wisknack outt-aldrich syndrome.

SUMM . . . leprosy, tuberculosis, urticaria, urticaria pigmentosa, urticarial vasculitis, vascular tumors, verruca vulgaris (common wart), vertical growlid typeh phase melanoma, visceral leishmaniasis, vitiligo, warty dyskeratoma, Weber-Cockayne epidermolysis bullosa, Woringer-Knack outlopp disease, xanthomas, xeroderma pigmentosum, xerosis, and yaws.

SUMM . . . (immediate) hypersensitivity (atopy, anaphylaxis), type 2 hypersensitivity, type 3 hypersensitivity (immune complex injury), type 4 (delayed) hypersensitivity, urticaria, variable immunodeficiency, vitiligo, Wisknack Outt-Aldrich syndrom, x-linked agammaglobulinemia, x-linked immunodeficiency with hyper IgM, x-linked lymphoproliferative syndrome, zap70 tyrosine kinase deficiency.

SUMM . . . deficiency, chronic fat malabsorption, citrullinemia, classic branched-chain ketoaciduria, classic cystinuria, congenital chloridorrhea, congenital erythropoietic porphyria, congenital generalized lipodystrophy, congenital myotonia, copper deficiency, copper toxicity, cystathionine β -synthase deficiency, cystathioninuria, cystic fibrosis, cystinosis, cystinuria, Darier disease, defect in transport of long-chain fatty acids, deficiency of cobalamin coenzyme deficiency, Dent's syndrome, diarthropic dysplasia, dibasic aminoaciduria, dicarboxylic aminoaciduria, dihydroxyrimidine dehydrogenase deficiency, distal renal tubular acidosis, dry beriberi, Dubin-Johnson. . . familial hypercholesterolemia, familial hypertriglyceridemia, familial hypophosphatemic rickets, familial lipoprotein lipase deficiency, familial partial lipodystrophy, Fanconi-Bickel syndrome, fluoride deficiency, folate malabsorption, folic acid deficiency, formiminoglutamic aciduria, fructose 1,6 diphosphatase deficiency, galactokinase deficiency, Gaucher disease, Gitelman's syndrome, . . . deficiency galactosemia, galactose 1-phosphate uridyl transferase deficiency, pyrimidine 5'-nucleotidase deficiency, renal glycosuria, riboflavin deficiency, rickets, Rogers' syndrome, saccharopinuria, Sandhoff disease, Sanfilippo syndromes, sarcosinemia, Scheie disease, scurvy (vitamin C deficiency), selenium deficiency, scleriosis, sialic acid storage disease, S-sulfo-L-cysteine, sulfite, thiosulfaturia, Tarui disease, Tay-Sachs disease, thiamine deficiency, tryptophan malabsorption, tryptophanuria. . . tyrosinemia, tyrosinemia type 1, tyrosinemia type 2, tyrosinemia type 3, uridine diphosphate galactose 4-epimerase deficiency, urocanic aciduria, variegate porphyria, vitamin B12 deficiency, vitamin C toxicity, vitamin D deficiency, vitamin D-resistant rickets, vitamin d-sensitive rickets, vitamin E deficiency, vitamin E toxicity, vitamin K deficiency, vitamin K toxicity, von Gierke disease, Wernicke's encephalopathy, wet beriberi, Wilson's disease, xanthurenic aciduria, X-linked sideroblastic anemia, zinc deficiency, zinc toxicity, α -ketoadipic aciduria, α -methylacetoacetic

aciduria, β -hydroxy- β -methylglutaric aciduria, β -methylcrotonyl glycinuria.

. . . erythrocyte enzyme deficiency, erythrocyte membrane defects, essential thrombocythemia, factor 7 deficiency, familial cyclic neutropenia, Felt's syndrome, fibrinolytic activity, folate antagonists, folic acid deficiency, Gaucher disease, Glanzmann's thrombasthenia, glucose-6-phosphate dehydrogenase deficiency, granulated T-cell lymphocyte leukemia, granulocytic sarcoma, granulocytosis, Hageman trait, hairy cell. . . chronic lymphoproliferative disorders, T-cell prolymphocytic leukemia, thalassemias, thrombocytopenia, thrombotic thrombocytopenic purpura, toxic granulation, toxic granules in severe infection, typhus, vitamin B12 deficiency, vitamin K deficiency, Von Willebrand's disease, Waldenström macroglobulinemia, and Wisknack outt-aldrich syndrome.

. . . leprosy, tuberculosis, urticaria, urticaria pigmentosa, urticarial vasculitis, vascular tumors, verruca vulgaris (common wart), vertical growlid typeh phase melanoma, visceral leishmaniasis, vitiligo, warty dyskeratoma, Weber-Cockayne epidermolysis bullosa, Woringer-Knack outlopp disease, xanthomas, xeroderma pigmentosum, xerosis, and yaws.

. . . (immediate) hypersensitivity (atopy, anaphylaxis), type 2 hypersensitivity, type 3 hypersensitivity (immune complex injury), type 4 (delayed) hypersensitivity, urticaria, variable immunodeficiency, vitiligo, Wisknack outt-Aldrich syndrom, x-linked agammaglobulinemia, x-linked immunodeficiency with hyper IgM, x-linked lymphoproliferative syndrome, and zap70 tyrosine kinase deficiency.

. . . deficiency, chronic fat malabsorption, citrullinemia, classic branched-chain ketoaciduria, classic cystinuria, congenital chloridorrhea, congenital erythropoietic porphyria, congenital generalized lipodystrophy, congenital myotonia, copper deficiency, copper toxicity, cystathionine β -synthase deficiency, cystathioninuria, cystic fibrosis, cystinosis, cystinuria, Darier disease, defect in transport of long-chain fatty acids, deficiency of cobalamin coenzyme deficiency, Dent's syndrome, diarthropic dysplasia, dibasic aminoaciduria, dicarboxylic aminoaciduria, dihydroxyrimidine dehydrogenase deficiency, distal renal tubular acidosis, dry beriberi, Dubin-Johnson. . . familial hypercholesterolemia, familial hypertriglyceridemia, familial hypophosphatemic rickets, familial lipoprotein lipase deficiency, familial partial lipodystrophy, Fanconi-Bickel syndrome, fluoride deficiency, folate malabsorption, folic acid deficiency, formiminoglutamic aciduria, fructose 1,6 diphosphatase deficiency, galactokinase deficiency, Gaucher disease, Gitelman's syndrome, . . . deficiency galactosemia, galactose 1-phosphate uridyl transferase deficiency, pyrimidine 5'-nucleotidase deficiency, renal glycosuria, riboflavin deficiency, rickets, Rogers' syndrome, saccharopinuria, Sandhoff disease, Sanfilippo syndromes, sarcosinemia, Scheie disease, scurvy (vitamin C deficiency), selenium deficiency, scleriosis, sialic acid storage disease, S-sulfo-L-cysteine, sulfite, thiosulfaturia, Tarui disease, Tay-Sachs disease, thiamine deficiency, tryptophan malabsorption, tryptophanuria. . . tyrosinemia, tyrosinemia type 1, tyrosinemia type 2, tyrosinemia type 3, uridine diphosphate galactose 4-epimerase deficiency, urocanic aciduria, variegate porphyria, vitamin B12 deficiency, vitamin C toxicity, vitamin D deficiency, vitamin D-resistant rickets, vitamin d-sensitive rickets, vitamin E deficiency, vitamin E toxicity, vitamin K deficiency, vitamin K toxicity, von Gierke disease, Wernicke's encephalopathy, wet beriberi, Wilson's disease, xanthurenic aciduria, X-linked sideroblastic anemia, zinc deficiency, zinc

toxicity, α -ketoadipic aciduria, α -methylacetoacetic aciduria, β -hydroxy- β -methylglutaric aciduria, and β -methylcrotonyl glycinuria.

... modulating GPCR expression in native cells and animals, and cells transformed or transfected with GPCR polynucleotides. For example, the CYS2-HIS2 zinc finger proteins, which bind DNA via their zinc finger domains, have been shown to be amenable to structural changes that lead to the recognition of different target sequences. These artificial zinc finger proteins recognize specific target sites with high affinity and are able to act as gene switches to modulate gene expression. Knowledge of the particular GPCR target sequence of the present invention facilitates the engineering of zinc finger proteins specific for the target sequence using known methods such as a combination of structure-based modeling and screening of. . . Acad. Sci. USA 94:5525-5530 (1997); Greisman et al., Science 275:657-661 (1997); Choo et al., J Mol Biol 273:525-532 (1997)). Each zinc finger domain usually recognizes three or more base pairs. Since a recognition sequence of 18 base pairs is generally sufficient in length to render it unique in any known genome, a zinc finger protein consisting of 6 tandem repeats of zinc fingers would be expected to ensure specificity for a particular sequence (Segal et al.). The artificial zinc finger repeats, designed based on GPCR sequences, are fused to activation or repression domains to promote or suppress GPCR expression (Liu et al.). Alternatively, the zinc finger domains can be fused to the TATA box-binding factor with varying lengths of linker region between the zinc finger peptide and the TBP to create either transcriptional activators or repressors (Kim et al., Proc. Nat. Acad. Sci. USA. . . to the target cells by transfecting constructs that express the transcription factor (gene therapy), or by introducing the protein. Engineered zinc finger proteins can also be designed to bind RNA sequences for use in therapeutics as alternatives to antisense or catalytic. . . invention contemplates methods of designing such transcription factors based on the gene sequence of the invention, as well as customized zinc finger proteins, that are useful to modulate GPCR expression in cells (native or transformed) whose genetic complement includes these sequences.

L5 ANSWER 7 OF 11 USPATFULL ON STN
ACCESSION NUMBER: 2006:136978 USPATFULL Full-text
TITLE: Nutritional supplement drink containing xanthone extracts

INVENTOR(S): Foulger, Sidney W., Potomac, MD, UNITED STATES
Wu, Yue Xuan, Rockville, MD, UNITED STATES

NUMBER KIND DATE

US 2006115556 A1 20060601
US 2005-129560 A1 20050312 (11)
Continuation-in-part of Ser. No. US 2004-1650, filed on 1 Dec 2004, PENDING

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: ALAN J. HOWARTH, P.O. BOX 1909, SANDY, UT, 84091-1909, US

NUMBER OF CLAIMS: 28
EXEMPLARY CLAIM: 1
LINE COUNT: 1932
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM

... a mixture of one or more organic-solvent-extracted xanthones; one or more vitamins selected from the group consisting of vitamin A, vitamin C, vitamin D, vitamin E, vitamin K, vitamin B-12, thiamine, riboflavin, niacin, pantothenic acid, pyridoxine, folic acid, biotin, derivatives thereof, and mixtures thereof; a flavoring agent; and an aqueous carrier. This nutritional supplement composition can also contain one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof; one or more carotenoids selected from the group consisting of β -carotene, lutein, lycopene, . . .

SUMM

... mixture of one or more organic-solvent-extracted xanthones; one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof; a flavoring agent; and an aqueous carrier. . . a mixture of about 1-200+10.sup.-3 parts by weight of one or more organic-solvent-extracted xanthones, about 100-3,000+10.sup.-3 parts by weight of vitamin C

SUMM

... a mixture of about 1-200+10.sup.-3 parts by weight of one or more organic-solvent-extracted xanthones, about 100-3,000+10.sup.-3 parts by weight of vitamin C about 10-800 international units of vitamin E, about 500-2,000+10.sup.-3 parts by weight of calcium, about 1-10+10.sup.-3 parts by weight of copper, about 1-10+10.sup.-3 parts by weight of iron, about 1-50+10.sup.-3 parts by weight of manganese, about 2-100+10.sup.-3 parts by weight of zinc, about 20-1,000+10.sup.-6 parts by weight of selenium, about 1-200+10.sup.-3 parts by weight of P-carotene, about 10-1,000+10.sup.-6 parts by weight of . . .

SUMM

... a flavoring agent, an aqueous carrier, and (a) one or more vitamins selected from the group consisting of vitamin A, vitamin C, vitamin D, vitamin E, vitamin K, vitamin B-12, thiamine, riboflavin, niacin, pantothenic acid, pyridoxine, folic acid, biotin, derivatives thereof, and mixtures thereof; or

SUMM

(b) one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof; or

SUMM

... a mixture of about 1-200+10.sup.-3 parts by weight of one or more organic-solvent-extracted xanthones, about 100-3,000+10.sup.-3 parts by weight of vitamin C, about 10-800 international units of vitamin E, about 500-2,000+10.sup.-3 parts by weight of calcium, about 1-10+10.sup.-3 parts by weight of copper, about 1-10+10.sup.-3 parts by weight of iron, about 1-50+10.sup.-3 parts by weight of manganese, about 2-100+10.sup.-3 parts by weight of zinc, about 20-1,000+10.sup.-6 parts by weight of selenium, about 1-200+10.sup.-3 parts by weight of β -carotene, about 10-1,000+10.sup.-6 parts by weight of . . .

DETD

... an amount sufficient to prevent a deficiency thereof or to reduce the incidence of some cancers, i.e., lung (vitamin E, folic acid, vitamin D, selenium), prostate (vitamin E, vitamin D, selenium), stomach (vitamin C), colorectal (folic acid, vitamin D, selenium), skin (selenium), cervix (folic acid), and breast (vitamin D); osteoporosis (vitamin D, vitamin K, calcium, magnesium, vanadium, and possibly boron and copper); osteoarthritis (calcium); macular degeneration or cataracts (riboflavin, vitamin C, vitamin E, folic acid, pyridoxine, selenium); heart disease (vitamin E, folic acid, pyridoxine,

vitamin A, magnesium, selenium, copper); neurologic disease (thiamine, niacin, pantothenic acid, folic acid, vitamin B-12); or Alzheimer's disease (vitamin E), or to aid in regeneration of connective tissue (vitamin C, copper, iron, manganese, zinc). An effective amount of a carotenoid is an amount sufficient to provide a beneficial effect, such as reduce the incidence.

DETD Vitamin C, or ascorbic acid, is known to be essential for the formation of intercellular scurvy, due to vitamin C deficiency, include bleeding gums, easy bruising, and a tendency toward bone fractures. All these symptoms are a result of the requirement for vitamin C in the development of the ground substance between cells. This ground substance, primarily collagen, is the cement that gives our . . . points to the relationship of the vitamin in maintenance of tooth structures, matrix of bone, and the walls of capillaries. Vitamin C is essential for the healing of bone fractures. Such fractures heal slowly in a patient deficient in vitamin C. This is true also of wound healing.

DETD Vitamin C is also an antioxidant. Oxygen is a highly reactive element, and the process of reacting with certain chemicals is termed . . . free-radical damage appears to contribute to chronic conditions and the more antioxidant nutrition supplementation is realized to be is essential. Vitamin C is the most effective water-soluble antioxidant in human plasma. Vitamin C is also a requirement for the proper functioning of the immune system. It is involved in white blood cell production, T-cells, and macrophages. In addition, vitamin C is required in the synthesis of neurotransmitters, steroid hormones, and carnitine, and in the conversion of cholesterol to bile acids and for enhancing iron availability. Vitamin C prevents degenerative diseases, such as cataracts, certain cancers, and cardiovascular diseases. Further, vitamin C promotes healthy cell development, proper calcium absorption, and normal tissue growth and repair, such as in healing of wounds and burns. Still further, vitamin C assists in prevention of blood clotting and bruising, and it strengthens capillary walls. Moreover, it protects against infection and assists.

DETD . . . is also an essential component of enzymes and aids in the utilization of protein and certain other vitamins, such as folic acid, pantothenic acid, and vitamin B-12.

DETD Folic acid or folacin is one of the important hematopoietic agents necessary for proper regeneration of blood-forming elements and their functioning. That is, folic acid is essential for creating heme, the iron-containing substance in hemoglobin, which is crucial for oxygen transport in the body. Folic acid is also involved as a coenzyme in intermediary metabolic reactions in which one-carbon units are transferred. These reactions are . . . purines and pyrimidines is ultimately linked with that of nucleotides and ribo- and deoxyribo-nucleic acids, functional elements in all cells. Folic acid also assists in digestion, in proper functioning of the nervous system, and improving mental and emotional health. Folic acid may be effective in treating depression and anxiety. Folic acid is also very important in the development of the nervous system and of a developing fetus.

DETD . . . to facilitate reduction reactions and participate in the transfer of methyl groups. Its chief importance seems to be, together with folic acid, in the anabolism of DNA in all cells. It is a requisite for normal blood formation, and certain macrocyclic.

DETD . . . been difficult to identify choline-deficiency syndromes in

humans. The Institute of Medicine noted: "Healthy males with normal folate and vitamin B12 status fed a choline deficient diet have diminished plasma choline and phosphatidylcholine concentrations, and develop liver damage. For these humans, . . .

DETD . . . it is actually a nutritional ingredient as well. Since it is a moiety of pteroylglutamic acid (PGA), a form of folic acid, some health professionals do not consider it a vitamin, but only a B-complex factor.

DETD . . . such, it aids in the utilization of amino acids, supports red blood cell formation, and assists in the manufacture of folic acid in the intestines. It has been linked to hair growth, as well as reversing the graying of hair, but these results are disappointing. People suffering from vitiligo, over-pigmentation of skin, or without pigmentation in some spots, have reported an improvement of the skin after more PABA was.

DETD . . . levels of PABA are stored in the body and may cause liver damage. PABA is best used in combination with vitamin C and the B group vitamins, particularly folic acid.

Long term antibiotic use may require more PABA from the body, but PABA affects the effectiveness of sulfa drugs. . .

DETD . . . sulphur, and chloride) are present in the body in quantities of more than five grams. Trace elements, which include boron, copper, iron, manganese, selenium, and zinc are found in the body in quantities of less than five grams.

DETD Copper is another important trace element in the diet. The most common defect observed in copper-deficient animals is anemia. Other abnormalities include growth depression, skeletal defects, demyelination and degeneration of the nervous system, ataxia, defects in pigmentation and structure of hair or wool, reproductive failure, and cardiovascular lesions, including dissecting aneurisms. Several copper-containing metalloproteins have been isolated, including tyrosinase, ascorbic acid oxidase, laccase, cytochrome oxidase, uricase, monoamine oxidase, 8-aminolevulinic acid hydriyase, and

dopamine- β -hydroxylase. Copper functions in the absorption and utilization of iron, electron transport, connective tissue metabolism, phospholipid formation, purine metabolism, and development of the nervous system. Ferroxidase I (ceruloplasmin), a copper-containing enzyme, effects the oxidation of Fe(II) to Fe(III), a required step for mobilization of stored iron. A

copper-containing enzyme is thought to be responsible for the oxidative deamination of the epsilon amino group of lysine to produce desmosine and isodesmosine, the cross-links of elastin. In copper-deficient animals the arterial elastin is weaker and dissecting aneurisms may occur. Copper is required in the formation of hemoglobin, red blood cells, and bones, while it helps with the formation of elastin and collagen, thus making it necessary for wound healing. Copper is also a constituent of superoxide dismutase (SOD), a powerful enzyme that scavenges free radicals in cells.

DETD . . . lipids, and proteins, as well as in the synthesis of glucose and lipids. Manganese also enables the body to utilize vitamin C, vitamin B-1, and biotin, as well as choline. Manganese is used in the manufacture of fat, sex hormones, and breast.

DETD Zinc is known to occur in many important metalloenzymes. These include carbonic anhydrase, carboxypeptidases A and B, alcohol dehydrogenase, glutamic dehydrogenase, . . . dehydrogenase, lactic dehydrogenase, malic dehydrogenase, alkaline phosphatase, and aldolase. Impaired synthesis of nucleic acids and proteins has been observed in zinc deficiency. There is also evidence that zinc may be involved in the secretion of insulin and in the function of the

15 ANSWER 8 OF 11 USPTAFULL on STN
ACCESSION NUMBER: 2006:136977 USPTAFULL Full-text
TITLE: Nutritional supplements containing xanthone extracts
INVENTOR(S): Foulger, Sidney W., Potomac, MD, UNITED STATES
Wu, Yue Xuan, Rockville, MD, UNITED STATES

a mixture of about 1-200*10.sup.-3 parts by weight of one or more extracted xanthones, about 100.sup.-3,000*10.sup.-3 parts by weight of vitamin C, about 10-800 international units of vitamin A, about 50-1,000 international units of vitamin E, about 1-100*10.sup.-3 parts by weight of pantothenic acid, about 1-100*10.sup.-3 parts by weight of pyridoxine, about 100.sup.-3,000*10.sup.-6 parts by weight of folic acid, about 2-160*10.sup.-6 parts by weight of vitamin B-12, about 50-5,000*10.sup.-6 parts by weight of biotin, about 25-600*10.sup.-3 parts by weight of para-aminobenzoic acid, about 500-2,000*10.sup.-3 parts by weight of calcium, about 1-10*10.sup.-3 parts by weight of copper, about 1-40*10.sup.-3 parts by weight of iron, about 1-50*10.sup.-3 parts by weight of manganese, about 2-100*10.sup.-3 parts by weight of zinc, about 20-1,000*10.sup.-6 parts by weight of selenium, about 50-1,000*10.sup.-3 parts by weight of magnesium, about 10-500*10.sup.-6 parts by weight of . . .
a flavoring agent, an aqueous carrier, and (a) one or more vitamins selected from the group consisting of vitamin A, vitamin C, vitamin D, vitamin E, vitamin K, vitamin B-12, thiamine, riboflavin, niacin, pantothenic acid, pyridoxine, folic acid, biotin, derivatives thereof, and mixtures thereof; or (b) one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese, molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof; or (c) one or more carotenoids selected from the group consisting of β -carotene.
a mixture of about 1-200*10.sup.-3 parts by weight of one or more extracted xanthones, about 100.sup.-3,000*10.sup.-3 parts by weight of vitamin C, about 10-800 international units of vitamin A, about 50-1,000*10.sup.-3 parts by weight of pantothenic acid, about 1-10*10.sup.-3 parts by weight of iron, about 1-50*10.sup.-3 parts by weight of manganese, about 2-100*10.sup.-3 parts by weight of zinc, about 20-1,000*10.sup.-6 parts by weight of selenium, about 50-1,000*10.sup.-3 parts by weight of β -carotene, about 10-1,000*10.sup.-6 parts by weight of biotin, about 25-600*10.sup.-3 parts by . . .

US 38
NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1892
LINE COUNT: 1
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
SUMM . . . mixture of one or more organic-solvent-extracted xanthones and one or more vitamins selected from the group consisting of vitamin A, vitamin C, vitamin D, vitamin E, vitamin K, vitamin B-12, thiamine, riboflavin, niacin, pantothenic acid, pyridoxine, folic acid, biotin, derivatives thereof, and mixtures thereof.
This nutritional supplement composition can also contain one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof; one or more carotenoids selected from the group consisting of β -carotene, lutein, lycopene, . . .
of one or more organic-solvent-extracted xanthones and one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof.
SUMM . . . a mixture of about 1-200*10.sup.-3 parts by weight of one or more organic-solvent-extracted xanthones, about 100-3,000*10.sup.-3 parts by weight of vitamin C, about 10-800 international units of vitamin E, about 500-2,000*10.sup.-3 parts by weight of calcium, about 1-10*10.sup.-3 parts by weight of copper, about 1-40*10.sup.-3 parts by weight of iron, about 1-50*10.sup.-3 parts by weight of manganese, about 2-100*10.sup.-3 parts by weight of zinc, about 20-1,000*10.sup.-6 parts by weight of selenium, about 1-200*10.sup.-3 parts by weight of β -carotene, about 10-1,000*10.sup.-6 parts by weight of . . . or more organic-solvent-extracted xanthones and one or more vitamins selected from the group consisting of vitamin A, vitamin C, vitamin D, vitamin E, vitamin K, vitamin B-12, thiamine, riboflavin, niacin, pantothenic acid, pyridoxine, folic acid, biotin, derivatives thereof, and mixtures thereof;
or
SUMM (b) one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof; or
SUMM . . . a mixture of about 1-200*10.sup.-3 parts by weight of one or more organic-solvent-extracted xanthones, about 100-3,000*10.sup.-3 parts by weight of vitamin C, about 10-800 international units of vitamin E, about 500-2,000*10.sup.-3 parts by weight of calcium, about 1-10*10.sup.-3 parts by weight of copper, about 1-40*10.sup.-3 parts by weight of iron, about 1-50*10.sup.-3 parts by weight of manganese, about 2-100*10.sup.-3 parts by weight of zinc, about 20-1,000*10.sup.-6 parts by weight of selenium, about 1-200*10.sup.-3 parts by weight of β -carotene, about 10-1,000*10.sup.-6 parts by weight of . . .
an amount sufficient to prevent a deficiency thereof or to reduce the incidence of some cancers, i.e., lung (vitamin E, folic acid, vitamin D, selenium), prostate (vitamin E, vitamin

D, selenium), stomach (vitamin C), colorectal (folic acid, vitamin D, selenium), skin (selenium), cervix (folic acid), and breast (vitamin D); osteoporosis (vitamin D, vitamin K, calcium, magnesium, vanadium, and possibly boron and copper); osteoarthritis (calcium); macular degeneration or cataracts (riboflavin, vitamin C, vitamin E, selenium); heart disease (vitamin E, folic acid, pyridoxine, vitamin A, magnesium, selenium, copper); neurologic disease (thiamine, niacin, pantothenic acid, folic acid, vitamin B-12); or Alzheimer's disease (vitamin E), or to aid in regeneration of connective tissue (vitamin C, copper, iron, manganese, zinc). An effective amount of a carotenoid is an amount sufficient to provide a beneficial effect, such as reduce the incidence.

DETD Vitamin C, or ascorbic acid, is known to be essential for the formation of intercellular collagen. Symptoms of scurvy, due to vitamin C deficiency, include bleeding gums, easy bruising, and a tendency toward bone fractures. All these symptoms are a result of the requirement for vitamin C in the development of the ground substance between cells. This ground substance, primarily collagen, is the cement that gives our . . . points to the relationship of the vitamin in maintenance of tooth structures, matrix of bone, and the walls of capillaries.

DETD Vitamin C is essential for the healing of bone fractures. Such fractures heal slowly in a patient deficient in vitamin C. This is true also of wound healing.

DETD Vitamin C is also an antioxidant. Oxygen is a highly reactive element, and the process of reacting with certain chemicals is termed. . . free-radical damage appears to contribute to chronic conditions and the more antioxidant nutrition supplementation is realized to be is essential. Vitamin C is the most effective water-soluble antioxidant in human plasma. Vitamin C is also a requirement for the proper functioning of the immune system. It is involved in white blood cell production, T-cells, and macrophages. In addition, vitamin C is required in the synthesis of neurotransmitters, steroid hormones, and carnitine, and in the conversion of cholesterol to bile acids and for enhancing iron availability. Vitamin C prevents degenerative diseases, such as cataracts, certain cancers, and cardiovascular diseases. Further, vitamin C promotes healthy cell development, proper calcium absorption, and normal tissue growth and repair, such as in healing of wounds and burns. Still further, vitamin C assists in prevention of blood clotting and bruising, and it strengthens capillary walls. Moreover, it protects against infection and assists. . .

DETD . . . is also an essential component of enzymes and aids in the utilization of protein and certain other vitamins, such as folic acid, pantothenic acid, and vitamin B-12.

DETD Folic acid or folacin is one of the important hematopoietic agents necessary for proper regeneration of blood-forming elements and their functioning. That is, folic acid is essential for creating heme, the iron-containing substance in hemoglobin, which is crucial for oxygen transport in the body. Folic acid is also involved as a coenzyme in intermediary metabolic reactions in which one-carbon units are transferred. These reactions are. . . purines and pyrimidines is ultimately linked with that of nucleotides and ribo- and deoxyribo-nucleic acids, functional elements in all cells. Folic acid also assists in digestion, in proper functioning of the nervous system, and improving mental and emotional health. Folic acid may be effective in treating depression and anxiety.

Folic acid is also very important in the development of the nervous system and of a developing fetus.

DETD . . . to facilitate reduction reactions and participate in the transfer of methyl groups. Its chief importance seems to be, together with folic acid, in the anabolism of DNA in all cells. It is a requisite for normal blood formation, and certain macrocyclic. . . . been difficult to identify choline-deficiency syndromes in humans. The Institute of Medicine noted: "Healthy males with normal folate and vitamin B12 status fed a choline deficient diet have diminished plasma choline and phosphatidylcholine concentrations, and develop liver damage. For these humans, . . . it is actually a nutritional ingredient as well. Since it is a moiety of pteroylglutamic acid (PGA), a form of folic acid, some health professionals do not consider it a vitamin, but only a B-complex factor.

DETD . . . such, it aids in the utilization of amino acids, supports red blood cell formation, and assists in the manufacture of folic acid in the intestines. It has been linked to hair growth, as well as reversing the graying of hair, but these results are disappointing. People suffering from vitiligo, over-pigmentation of skin, or without pigment in some spots, have reported an improvement of the skin after more PABA was. . .

DETD . . . levels of PABA are stored in the body and may cause liver damage. PABA is best used in combination with vitamin C and the B group vitamins, particularly folic acid.

DETD Long term antibiotic use may require more PABA from the body, but PABA affects the effectiveness of sulfa drugs. . . . sulphur, and chloride) are present in the body in quantities of more than five grams. Trace elements, which include boron, copper, iron, manganese, selenium, and zinc are found in the body in quantities of less than five grams.

DETD Copper is another important trace element in the diet. The most common defect observed in copper-deficient animals is anemia. Other abnormalities include growth depression, skeletal defects, demyelination and degeneration of the nervous system, ataxia, defects in pigmentation and structure of hair or wool, reproductive failure, and cardiovascular lesions, including dissecting aneurisms. Several copper-containing metalloproteins have been isolated, including tyrosinase, ascorbic acid oxidase, laccase, cytochrome oxidase, uricase, monoamine oxidase, 8-aminolevulinic acid hydrolase, and dopamine- β -hydroxylase. Copper functions in the absorption and utilization of iron, electron transport, connective tissue metabolism, phospholipid formation, purine metabolism, and development of the nervous system. Ferroxidase I (ceruloplasmin), a copper-containing enzyme, effects the oxidation of Fe(II) to Fe(III), a required step for mobilization of stored iron. A copper-containing enzyme is thought to be responsible for the oxidative deamination of the epsilon amino group of lysine to produce desmosine and isodesmosine, the cross-links of elastin. In copper-deficient animals the arterial elastin is weaker and dissecting aneurisms may occur. Copper is required in the formation of hemoglobin, red blood cells, and bones, while it helps with the formation of elastin and collagen, thus making it necessary for wound healing. Copper is also a constituent of superoxide dismutase (SOD), a powerful enzyme that scavenges free radicals in cells.

DETD . . . lipids, and proteins, as well as in the synthesis of glucose and lipids. Manganese also enables the body to utilize vitamin C, vitamin B-1, and biotin, as well as choline. Manganese is used in the manufacture of rat, sex hormones, and breast. . .

DETD

Zinc is known to occur in many important metalloenzymes. These include carbonic anhydrase, carboxypeptidases A and B, alcohol dehydrogenase, glutamic dehydrogenase, . . . dehydrogenase, lactic dehydrogenase, malic dehydrogenase, alkaline phosphatase, and aldolase. Impaired synthesis of nucleic acids and proteins has been observed in zinc deficiency. There is also evidence that zinc may be involved in the secretion of insulin and in the function of the hormone. Zinc is also necessary for a healthy immune system and is useful for treating skin conditions, such as acne and boils, and for treating sore throats. Zinc is also needed for cell division and for growth and maintenance of muscles. Children need zinc in the diet for normal growth and sexual development. Zinc is also a constituent of superoxide dismutase (ZnSOD), which scavenges free radicals. Further, zinc is required for growth and maintenance of hair, nails, and skin.

DETD

Minerals . . . Weight . . . Broad . . . Typical

Calcium 500-2,000 + 10.sup.-3 500-1,500 + 10.sup.-3
Magnesium 50-1,000 + 10.sup.-3 100-800 + 10.sup.-3
Chromium 10-500 + 10.sup.-6 10-300 + 10.sup.-6
Copper 1-10 + 10.sup.-3 1-5 + 10.sup.-3
Iodine 10-500 + 10.sup.-6 10-300 + 10.sup.-6
Iron 1-40 + 10.sup.-3 5-20 + 10.sup.-3
Manganese 1-50 + 10.sup.-3 2-25 + 10.sup.-3
Molybdenum 5-200 + 10.sup.-6 10-100 + 10.sup.-6
Selenium 20-1,000 + 10.sup.-6 20-500 + 10.sup.-6
Zinc 2-100 + 10.sup.-3 5-40 + 10.sup.-3
Sodium 100-1,000 + 10.sup.-6 200-800 + 10.sup.-6
Potassium 100-500 + 10.sup.-3 200-400 + 10.sup.-3
DETD 10-500 + . . .

. . . art. U.S. Pat. No. 5,292,538. Examples of minerals that can be provided as amino acid chelates include calcium, magnesium, manganese, zinc, iron, boron, copper, molybdenum, chromium, and silicon. Still further, minerals can be provided as organic compounds, such as ascorbates, citrates, picolinates, aspartates, carbonates, . . . Illustrative examples of various mineral forms according to the present invention include potassium bicarbonate, sodium bicarbonate, calcium carbonate, calcium ascorbate, zinc picolinate, manganese picolinate, copper aspartate, molybdenum trioxide, chromium picolinate, potassium iodide, boron citrate, silicon amino acid chelate, and the like.

DETD . . . free radicals and are believed to reduce the risk of cancer and heart disease, decrease allergy and arthritis symptoms, promote vitamin C activity, improve the strength of blood vessels, block the progression of cataracts and macular degeneration, treat menopausal hot flashes, and . . .

DETD . . . With the intake of very high dosage of inositol. Inositol is best used with choline, B group vitamins, vitamin E, vitamin C, and linoleic acid.

DETD . . . less joint deterioration. MSM is a non-metallic organic compound that plays an essential role in human nutrition. When amino acids, zinc, copper, silicon, and vitamin C are present, the body metabolizes MSM to sulfur. Sulfur, a structural component integral to new cell growth, is stored in. . .

DETD . . . 50 800 400

Vitamin E (IU) 200 500 800 750 200 400 150 300

Vitamin K (µg) 800 80 200 200 200 200 20

Vitamin C (mg) 600 1800 200 900 800 1000 2000 1000
Thiamine (mg) 10 40
Riboflavin (mg) 8 20
1500 800 1200 1000 600 1500 1000 800
Magnesium (mg) 200 200 400 25 350
Chromium (µg) 250
Copper (mg) 1 10 2 4 2 10
Iodine (µg) 100 100 50 200 20
Iron (mg) 5 40 20 10 50 4 2 40
Molybdenum (µg) 30 30 40 5 100
Selenium (µg) 100 500 250 200 50 300 50 800
Zinc (mg) 250 10 80 20 40 100 15 100
Boron (µg) 10 20 500 100 800 300
Potassium (mg) 250 100 50 . . .

CLM

What is claimed is:
1. mixture of one or more organic-solvent-extracted xanthenes and one or more vitamins selected from the group consisting of vitamin A, vitamin C, vitamin D, vitamin E, vitamin K, vitamin B-12, thiamine, riboflavin, niacin, pantothenic acid, pyridoxine, folic acid, biotin, derivatives thereof, and mixtures thereof.
2. supplement composition of claim 1 further comprising one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese, molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof.
3. of one or more organic-solvent-extracted xanthenes and one or more minerals selected from the group consisting of calcium, magnesium, chromium, copper, iodine, iron, manganese, molybdenum, selenium, zinc, boron, sodium, potassium, silicon, and mixtures thereof.

. . . nutritional supplement composition of claim 13 further comprising one or more vitamins selected from the group consisting of vitamin A, vitamin C, vitamin D, vitamin E, vitamin K, vitamin B-12, thiamine, riboflavin, niacin, pantothenic acid, pyridoxine, folic acid, biotin, derivatives thereof, and mixtures thereof.
4. a mixture of about 1-200+10.sup.-3 parts by weight of one or more organic-solvent-extracted xanthenes, about 100-3,000+10.sup.-3 parts by weight of vitamin C, about 10-800 international units of vitamin E, about 500-2,000+10.sup.-3 parts by weight of calcium, about 1-10+10.sup.-3 parts by weight of iron, about 1-40+10.sup.-3 parts by weight of copper, about 1-50+10.sup.-3 parts by weight of manganese, about 2-100+10.sup.-3 parts by weight of zinc, about 20-1,000+10.sup.-6 parts by weight of selenium, about

15 USPATFULL ON STN
 ANSWER 9 OF 11
 2005:196967 USPATFULL Full-text
 ACCESSION NUMBER:
 Asabiacyclic heterocycles as cannabinoid receptor
 modulators
 TITLE:
 Yu, Guixue, Princeton Junction, NJ, UNITED STATES
 INVENTOR(S):

acid, α -tocopherol or retinol as disclosed in WO 94/15592 as well as Vitamin C and an antihomocysteine agent such as folic acid, a folate, Vitamin B6, Vitamin B12 and Vitamin E; isoniazid as disclosed in WO 97/35576; a cholesterol absorption inhibitor, an HMG-CoA synthase inhibitor, or a lanosterol.

CLM What is claimed is:
 . . . catabolism promoter; a sodium-proton exchange inhibitor; an LDL-receptor inducer; steroidal glycoside; an anti-oxidant selected from beta-carotene, ascorbic acid, α -tocopherol, retinol, Vitamin C antihomocysteine agent, folic acid, a folate, Vitamin B6, Vitamin B12 and Vitamin E; isoniazid; a cholesterol absorption inhibitor; an HMG-CoA synthase inhibitor; a lanosterol demethylase inhibitor; a PPAR δ agonist.
 . . . thyroiditis; Sjogren's syndrome; autoimmune hyperthyroidism, such as Graves' Disease; Addison's disease; autoimmune polyglandular disease or syndrome; autoimmune alopecia; pernicious anemia; vitiligo; autoimmune hypopituitarism; Guillain-Barre syndrome; other autoimmune diseases; glomerulonephritis; serum sickness; uticaria; asthma, hayfever, allergic rhinitis and skin allergies; scleroderma; mycosis.

L5 ANSWER 10 OF 11 USPATFULL on STN
 ACCESSION NUMBER: 2005:63617 USPATFULL Full-text
 TITLE: Pyrazine modulators of cannabinoid receptors
 INVENTOR(S): Ellsworth, Bruce A., Princeton, NJ, UNITED STATES
 Sun, Chongqing, East Windsor, NJ, UNITED STATES
 Pendri, Annapurna, Glastonbury, CT, UNITED STATES

| PATENT INFORMATION: | NUMBER | KIND | DATE |
|----------------------------------|--------|----------|------|
| US 2005054659 | A1 | 20050310 | |
| APPLICATION INFO: US 2004-917199 | A1 | 20040812 | (10) |

| NUMBER | DATE |
|-----------------|---------------|
| US 2003-495807P | 20030815 (60) |

PRIORITY INFORMATION: US 2003-495807P 20030815 (60)
 DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000

NUMBER OF CLAIMS: 1
 EXEMPLARY CLAIM: 60
 LINE COUNT: 2334

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 . . . a leaving group such as bromine, chlorine, OTf, with M-A where M is hydrogen or metalloid, such as boron, tin, zinc, copper, potassium, sodium and the like. This coupling may be facilitated by catalysts such as Pd(0), Cu(I) and the like. Examples.
 . . . a metalloid such as lithium or magnesium and the like, or such metal is exchanged for another metal such as zinc, tin, palladium and the like. Compounds of formula VIII can be reacted with sulfur electrophiles such as R.sub.7SSR.sup.7 or SO.sub.2Cl.sub.2.
 . . . disease (autoimmune disease of the adrenal glands); Autoimmune polyglandular disease (also known as autoimmune polyglandular syndrome); autoimmune alopecia; pernicious anemia; vitiligo; autoimmune hypopituitarism; Guillain-Barre syndrome; other autoimmune diseases; glomerulonephritis; serum sickness; uticaria; allergic diseases such as respiratory allergies (asthma, hayfever, allergic.
 . . . GB 2304106; an anti-oxidant such as beta-carotene, ascorbic acid, α -tocopherol or retinol as disclosed in WO 94/15592 as well as Vitamin C and an antihomocysteine agent such as

CLM What is claimed is:
 . . . catabolism promoter; a sodium-proton exchange inhibitor; an LDL-receptor inducer; steroidal glycoside; an anti-oxidant selected from beta-carotene, ascorbic acid, α -tocopherol, retinol, Vitamin C antihomocysteine agent, folic acid, a folate, Vitamin B6, Vitamin B12 and Vitamin E; isoniazid; a cholesterol absorption inhibitor; an HMG-CoA synthase inhibitor; a lanosterol demethylase inhibitor; a PPAR δ agonist.
 . . . thyroiditis; Sjogren's syndrome; Autoimmune hyperthyroidism, such as Graves' Disease; Addison's disease; autoimmune polyglandular disease or syndrome; autoimmune alopecia; pernicious anemia; vitiligo; autoimmune hypopituitarism; Guillain-Barre syndrome; other autoimmune diseases; glomerulonephritis; serum sickness; uticaria; asthma, hayfever, allergic rhinitis and skin allergies; scleroderma; mycosis.

L5 ANSWER 11 OF 11 USPATFULL on STN
 ACCESSION NUMBER: 2005:17384 USPATFULL Full-text
 TITLE: Tetrahydroquinoline derivatives as cannabinoid receptor modulators

| PATENT INFORMATION: | NUMBER | KIND | DATE |
|----------------------------------|--------|----------|------|
| US 2005014786 | A1 | 20050120 | |
| APPLICATION INFO: US 2004-889274 | A1 | 20040712 | (10) |

| NUMBER | DATE |
|-----------------|---------------|
| US 2003-486774P | 20030711 (60) |

PRIORITY INFORMATION: US 2003-486774P 20030711 (60)
 DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000

NUMBER OF CLAIMS: 56
 EXEMPLARY CLAIM: 1
 LINE COUNT: 4140

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 DETD . . . pyridone, imidazole or pyrazole) or a hydroxyarene (e.g. phenol), or a hydroxyheteroarene of formula XXVIII in the presence of a copper catalyst. Compounds of formula Iq can be prepared by treatment of intermediate Id with zinc cyanide in the presence of a palladium catalyst, e.g. Pd(Ph.sub.3P).sub.4. It is understood that each of the non-aromatic carbons of . . .
 DETD [0168] A solution of 1B (250 mg, 0.76 mmol) and zinc cyanide (88 mg, 0.75 mmol) in DMF (2.5 mL) was bubbled with argon for 10 min, then tetrakis-(triphenylphosphine)palladium(0) (65 mg, . . .
 DETD (71.3 mg, 0.75 mmol), K.sub.2CO.sub.3 (138.2 mg, 1.0 mmol) and copper iodide (47.6 mg, 0.25 mmol) in DMF (1.0 mL) was added

N,N'-dimethylethylenediamine (27 µL, 0.25 mmol). The resulting blue suspension.
[0397] A suspension of 87B (55 mg, 0.12 mmol), phenol (33.9 mg, 0.36 mmol), K-sub-2CO-sub-3 (50 mg, 0.36 mmol) and copper iodide (17.1 mg, 0.09 mmol) in DMF (1.0 mL) was heated at 200 °C. in a sealed tube with stirring.
... disease (autoimmune disease of the adrenal glands); Autoimmune polyglandular disease (also known as autoimmune polyglandular syndrome); autoimmune alopecia; pernicious anemia; vitiligo; autoimmune hypopituitarism; Guillain-Barre syndrome; other autoimmune diseases; glomerulonephritis; serum sickness; urticaria; allergic diseases such as respiratory allergies (asthma, hayfever, allergic).
... GB 2304106; an anti-oxidant such as beta-carotene, ascorbic acid, α-tocopherol or retinol as disclosed in WO 94/15592 as well as Vitamin C and an antihomocysteine agent such as folic acid, a folate, Vitamin B6, Vitamin B12 and Vitamin E; isoniazid as disclosed in WO 97/35576; a cholesterol absorption inhibitor, an HMG-CoA synthase inhibitor, or a lanosterol.

What is claimed is:
... catabolism promoter; a sodium-proton exchange inhibitor; an LDL-receptor inducer; steroidal glycoside; an anti-oxidant selected from beta-carotene, ascorbic acid, α-tocopherol, retinol, Vitamin C antihomocysteine agent, folic acid, a folate, Vitamin B6, Vitamin B12 and Vitamin E; isoniazid; a cholesterol absorption inhibitor; an HMG-CoA synthase inhibitor; a lanosterol demethylase inhibitor; a PPAR δ agonist.
... thyroiditis; Sjogren's syndrome; autoimmune hyperthyroidism, such as Graves' Disease; Addison's disease; autoimmune polyglandular disease or syndrome; autoimmune alopecia; pernicious anemia; vitiligo; autoimmune hypopituitarism; Guillain-Barre syndrome; other autoimmune diseases; glomerulonephritis; serum sickness; urticaria; asthma, hayfever, allergic rhinitis and skin allergies; scleroderma; mycosis.

=> s montes and vitiligo
L7 4 MONTES AND VITILIGO
=> d 17 1-4 ibib kwic

L7 ANSWER 1 OF 4 USPATFULL on STN
ACCESSION NUMBER: 2006:159887 USPATFULL Full-text
TITLE: Use of angiotensin receptor blockers (ARBs) to treat diseases associated with excess ACE
INVENTOR(S): Moskowitz, David W., St. Louis, MO, UNITED STATES

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 2006135422 | A1 | 20060622 |
| APPLICATION INFO.: | US 2004-820479 | A1 | 20040331 (10) |

PRIORITY INFORMATION:
US 2003-463437P 20030417 (60)
US 2003-465908P 20030425 (60)
US 2003-473262P 20030527 (60)
US 2003-477387P 20030611 (60)

US 2003-482553P 20030626 (60)
US 2003-500933P 20030908 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Sonnenschein Nath & Rosenthal, P. O. Box 061080, Wacker Drive Station, Sears Tower, Chicago, IL, 60606-1080, US
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 12 Drawing Page(s)
LINE COUNT: 2821
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . Brown, N. J.; Vaughan, D. E. Prothrombotic effects of angiotensin. Adv Intern Med, 2000, 45, 419-429.

163. Perez-Ruiz, A.; Montes, R.; Velasco, F.; Lopez-Pedraza, C.; Antonio-Paramo, J.; Orbe, J.; Hermida, J.; Rocha, E. Regulation by nitric oxide of endotoxin-induced tissue.

DETD Vitiligo is an autoimmune disease characterized by loss of skin pigmentation. It usually begins around age 20 (2) and affects patches of skin, but can progress to involve the entire body. Vitiligo appears to be due to an autoimmune attack by a person's T lymphocytes against the skin cells that produce pigment, the melanocytes. Although not life-threatening, the disease can be disfiguring. Vitiligo affects perhaps 500,000 people in the United States, and many more worldwide. Current treatment is expensive and not available everywhere. It is reasonable to expect that treatment of vitiligo with an effective dose of ACE inhibitor or ARB would reduce symptoms of this disease.

DETD . . . S, Barber B H, Spaner D, DeBenedette M A. Cytotoxic T lymphocyte reactivity to gp100, Melana/MART-1, and tyrosinase, in HLA-A2-positive vitiligo patients. J Invest Dermatol. 2003 September;121(3):550-6. PMID: 12925214

(2) Das S K, Majumder P P, Chakraborty R, Majumdar T K, Halder B.Genet Epidemiol. 1985; 2(1):71-8. Studies on vitiligo. I. Epidemiological profile in Calcutta, India. PMID: 4054593

L7 ANSWER 2 OF 4 USPATFULL on STN
ACCESSION NUMBER: 2004:220935 USPATFULL Full-text
TITLE: Method and composition for treating hypopigmentation of the hair and skin
INVENTOR(S): VanStockum, Audrey, Chicago, IL, UNITED STATES

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 2004170702 | A1 | 20040902 |
| APPLICATION INFO.: | US 2004-782827 | A1 | 20040223 (10) |

PRIORITY INFORMATION:
US 2003-449866P 20030227 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KRAMER & AMADO, P.C., 2001 JEFFERSON DAVIS HWY, SUITE 1101, ARLINGTON, VA, 22202

NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
LINE COUNT: 593
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
SUMM . . . the present dietary supplement can reverse the loss of pigmentation in the skin and hair, resulting from such conditions as vitiligo. Thus, at least for some individuals, the natural skin

or hair color can be restored, and maintained, naturally without the.

as the fingernails and toenails. Medical disorders which cause a loss of these melanocytes can result in diseases, such as vitiligo, marked by a loss of skin pigmentation.

[0004] Vitiligo affects 18-23 of the world population, and results from a lack of melanin in the epidermis due to the disappearance. . . and shapes, either localized or generalized. Frequently, these white areas have a symmetrical distribution on both halves of the body. Vitiligo can begin at any age and become gradually progressive to the point of affecting the entire skin. Although the precise cause of vitiligo is not known, such clinical behavior speaks in favor of an internal or systemic etiology. It is possible that vitiligo is an autoimmune condition. Studies have reported that patients with vitiligo exhibit a circulating autoantibody that binds to melanocytes in human skin, nevus cells and melanoma cells.

of the face are truly disfiguring. Years ago Nehru recognized this fact by ranking the need for a treatment of vitiligo on a level with that for leprosy and tuberculosis. In all instances there is a quest for help. At present.

PCAT inhibits the progression of pigment loss, and reduces skin levels of peroxides which are known to be increased in vitiligo patients. However, there are certain drawbacks to PCAT. First, the cream can cause skin to break out in pimples and.

[0007] Novitil, which works as a tanning accelerator, has also been tried as a vitiligo treatment. This is a formulated gel containing oils, distilled water, glycerin, carbomethylcellulose, camphor, menthol, polypeptides, Aloe Barbadensis, oligoelements and kathon. . . product which also contains natural anti-inflammatory agents, skin conditioners, and antioxidants. V-Tar has been used successfully in many patients with vitiligo and other hypopigmentary disorders. It will not stain the skin, and its once weekly application is convenient for many patients. . . been approved by the FDA does not support the clinical investigation or use of Protopic for vitiligo at this time.

[0012] In particularly severe cases of vitiligo, where the patches of white skin cover large parts of the body surface, depigmentation is sometimes used. In this therapy. . . therapies using vitamins and/or minerals known in the art to be safe have been proposed. One such nutritional therapy for vitiligo was described by Montes (U.S. Pat. No. 4,985,443). This therapy involves oral treatment with folic acid, alone or in combination with vitamins C and B12. A second repigmentation therapy, disclosed as useful for treatment of grey hair, but not vitiligo, was proposed by Nelson (U.S. Pat. No. 6,149,933). This treatment regimen involves administration of copper, p-aminobenzoic acid, pantothenic acid, and. . .

[0016] The Nelson and Montes treatments have achieved some good yet inconsistent results. One area their treatments overlook is vitamin and mineral absorption. Some of. . .

[0017] There is thus a long-felt need in the art for therapies for treatment of vitiligo which are not prone to the frequently severe side effects of the treatments described above, and which do not require. . . the present invention a combination of vitamins and minerals stimulates pigmentation in the skin and hair. Advantages over prior art vitiligo treatments include a lack of dermatological side effects, including allergies, sunburn, scarring, and cancer, as

well as a lack of. . .

[0032] Vitamin B12 deficiency can also affect vitiligo patients. First, folic acid and vitamin B12 require each other's presence in biological reactions. Reactions are accelerated by supplying the. . . and vice versa. Hence, taking them together is recommended. Also, one of the theories relating to loss of melanocytes in vitiligo involves nervous system disorders, resulting in an anomalous distribution of neuropeptides in vitiliginous skin. Vitamin B12 deficiency can result in. . . myelin, a key protein in the glial cells that insulate nerve cells. Thus, vitamin B12 can potentially aid in healing vitiligo by helping to repair defective nerve cells.

acid, zinc, and Betaine HCL into a makeup or suntan formulation for application to the skin of a patient with vitiligo. . . ingredients, such as products like lipstick or eyeshadow, may be used to color depigmented skin. A lipstick formulation for treating vitiligo might include, along with the active ingredients, such ingredients as assorted oils and waxes, such as sunflower oil, castor oil. . .

What is claimed is:

method of claim 1, wherein said disorders marked by a loss of pigmentation are selected from the group consisting of vitiligo and gray hair.

ANSWER 3 OF 4 USPTAFULL on STN

ACCESSION NUMBER: 2002:221805 USPTAFULL Full-text

TITLE: Novel compositions of cobalam and related corrinoids, and uses thereof

INVENTOR(S): Sarill, William J., Arlington, MA, UNITED STATES
Brennan, Thomas F., Nyack, NY, UNITED STATES

PATENT INFORMATION: US 2002119947 A1 20020829
APPLICATION INFO.: US 2001-928904 A1 20010813 (9)
RELATED APPLN. INFO.: Continuation of Ser. No. US 1997-936781, filed on 17 Sep 1997, GRANTED, Pat. No. US 6274564

| NUMBER | KIND | DATE |
|-----------------------|--------------------------------------------------------|------|
| US 1996-25298P | 19960918 (60) | |
| US 1997-41750P | 19970328 (60) | |
| UTILITY | | |
| APPLICATION | | |
| LEGAL REPRESENTATIVE: | LAHIVE & COCKFIELD, 28 STATE STREET, BOSTON, MA, 02109 | |
| NUMBER OF CLAIMS: | 19 | |
| EXEMPLARY CLAIM: | 1 | |
| LINE COUNT: | 1912 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . gastric fundus, with consequent depletion or impairment of intrinsic factor. Suggestively, an increased prevalence of other autoimmune disorders, such as vitiligo, Graves' disease, Hashimoto's thyroiditis, Type I diabetes, Sjogren's syndrome and rheumatoid arthritis, is found among pernicious anemia patients; the resulting. . . Both psoriasis and lupus erythematosus have been successfully treated with cyanocobalamin (Stingily, Miss. Doctor 3, 222-223 (1955)), while cases of vitiligo have responded to treatment with vitamin B12 combined with other vitamins (Montes et al., Cutis 50, 39-42 (1992)).

SUMM . . . 173-182 (1992)), multiple sclerosis (Reynolds et al., Arch. Neurol. 48, 808-811 (1991); Kira et al., Intern. Med. 33, 82-86 (1994)), vitiligo (Montes et al., Cutis 50, 39-42 (1992)), psoriasis (Stingily, Miss. Doctor 32, 222-223 (1955)) and lupus erythematosus (Molad et al., Am.
SUMM . . . other vitamins and nutrients to treat atherosclerotic conditions (Olszewski et al., Atherosclerosis 75, 1-6 (1989); Olszewski, ibid. 88, 97-98 (1991)), vitiligo (Montes et al., Cutis 50, 39-42 (1992)) and Down's syndrome (Harrell et al., Proc. Natl. Acad. Sci. USA 78, 574-578 (1981)).
L7 ANSWER 4 OF 4 USPATFULL ON STN
ACCESSION NUMBER: 2001:131279 USPATFULL Full-text
TITLE: Compositions of cobalamin and related corrinoids, and uses thereof
INVENTOR(S): Sarilli, William J., 78 Hibbert St., Arlington, MA, United States 02154
Brennan, Thomas F., 44 A Gail Dr., Nyack, NY, United States 10960
PATENT INFORMATION: US 6274564 B1 20010814
APPLICATION INFO.: US 1997-936781 19970917 (8)
PRIORITY INFORMATION: US 1996-25298P 19960918 (60)
US 1997-41750P 19970328 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Travers, Russell
LEGAL REPRESENTATIVE: Lahive & Cockfield, LLP
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
LINE COUNT: 1907
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
SUMM gastric fundus, with consequent depletion or impairment of intrinsic factor. Suggestively, an increased prevalence of other autoimmune disorders, such as vitiligo, Graves' disease, Hashimoto's thyroiditis, Type I diabetes, Sjogren's syndrome and rheumatoid arthritis, is found among pernicious anemia patients; the resulting. Both psoriasis and lupus erythematosus have been successfully treated with cyanocobalamin (Stingily, Miss. Doctor 32, 222-223 (1955)), while cases of vitiligo have responded to treatment with vitamin B12 combined with other vitamins (Montes et al., Cutis 50, 39-42 (1992)).
SUMM . . . 173-182 (1992)), multiple sclerosis (Reynolds et al., Arch. Neurol. 48, 808-811 (1991); Kira et al., Intern. Med. 33, 82-86 (1994)), vitiligo (Montes et al., Cutis 50, 39-42 (1992)), psoriasis (Stingily, Miss. Doctor 32, 222-223 (1955)) and lupus erythematosus (Molad et al., Am.
SUMM other vitamins and nutrients to treat atherosclerotic conditions (Olszewski et al., Atherosclerosis 75, 1-6 (1989); Olszewski, ibid. 88, 97-98 (1991)), vitiligo (Montes et al., Cutis 50, 39-42 (1992)) and Down's syndrome (Harrell et al., Proc. Natl. Acad. Sci. USA 78, 574-578 (1981)).

=> d his full
(FILE 'HOME' ENTERED AT 09:14:54 ON 23 FEB 2007)
FILE 'HCAPIUS, USPATFULL, BIOSIS, MEDLINE' ENTERED AT 09:15:13 ON 23 FEB 2007
2007 0 SEA VANSTOCKUM
L1 8691 SEA VITILIGO
L2 18 SEA L2 AND FOLIC AND VITAMIN C AND COPPER AND (B12 OR COBALAMIN
L3)
L4 17 DUP REM L3 (1 DUPLICATE REMOVED)
L5 11 SEA L4 AND ZINC
L6 5 SEA L5 AND PANTOTHENIC
D L6 1-5 IBIB KWIC
D L5 1-11 IBIB KWIC
L7 4 SEA MONTES AND VITILIGO
D L7 1-4 IBIB KWIC

FILE HOME

FILE HCAPIUS

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FILE LAST UPDATED: 21 Feb 2007 (20070221/ED)

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FILE USPATFULL

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 22 Feb 2007 (20070222/PD)
FILE LAST UPDATED: 22 Feb 2007 (20070222/ED)

HIGHEST GRANTED PATENT NUMBER: US7181769
HIGHEST APPLICATION PUBLICATION NUMBER: US2007044192
CA INDEXING IS CURRENT THROUGH 22 Feb 2007 (20070222/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 22 Feb 2007 (20070222/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2006
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2006

FILE BIOSIS

FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNS) PRESENT FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 22 February 2007 (20070222/ED)

=>

FILE MEDLINE
FILE LAST UPDATED: 22 Feb 2007 (20070222/UP). FILE COVERS 1950 TO DATE.

All regular MEDLINE updates from November 15 to December 16 have been added to MEDLINE, along with 2007 Medical Subject Headings (MeSH(R)) and 2007 tree numbers.

The annual reload will be available in early 2007.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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| FULL ESTIMATED COST | 110.10 | 110.31 | |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL | |
| | ENTRY | SESSION | |
| CA SUBSCRIBER PRICE | -1.56 | -1.56 | |

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